DYNEX™

32" LCD TV

DX-32L230A12

USER GUIDE

Dynex DX-32L230A12
32" LCD TV

Contents

CHILD SAFETY
It makes a difference how and where you use your flat panel display

As you enjoy your new product, keep these safety tips in mind

The issue

The home theater entertainment experience is a growing trend, and larger TVs are popular purchases. However, TVs are not always supported on the proper stands or installed according to the manufacturer's recommendations. We and the consumer electronics industry are committed to making home entertainment enjoyable and safe.

TVs that are inappropriately placed on dressers, bookcases, shelves, desks, speakers, chests, or carts may fall over and cause injury.

Tune into safety

- One size of TV stand does **not** fit all. Use only a TV stand rated for the weight of your TV.
- Carefully read and understand all enclosed instructions for proper use of this product.
- Don't let children climb on or play with entertainment system furniture and TVs.
- Don't place TVs on furniture that can easily be used as steps, such as a chest of drawers.
- Remember that children can become excited while watching a program, especially on a "larger-than-life" TV. Make sure that you place or install the TV where it cannot be pushed, pulled over, or knocked down.
- Make sure that you route all cords and cables so that they cannot be pulled or grabbed by curious children.

Wall mounting

If you decide to wall mount your TV, always remember:
- One size of wall mount does **not** fit all. Use only a wall mount rated for the weight of your TV and that has been recommended by this TV manufacturer, listed in this manual, or otherwise listed by an independent laboratory as suitable for your TV.
- Follow all instructions supplied by the TV and wall mount manufacturers.
- If you have any doubts about your ability to safely wall mount your TV, get help from a professional installer.
- Make sure that the wall where you are mounting the TV is appropriate. Some wall mounts are not designed to be mounted to walls backed with steel studs or cinder blocks. If you are unsure, ask a professional installer.
- TVs can be heavy. At least two people are required for safe wall mount installation.

Important Safety Instructions

This symbol indicates that dangerous voltage constituting a risk of electric shock is present within your TV. This label is located on the back of your TV.

This symbol indicates that there are important operating and maintenance instructions in the literature accompanying your TV.

1   Read these instructions.

2   Keep these instructions.

3   Heed all warnings.

4   Follow all instructions.

5   Do not use this apparatus near water.

6   Clean only with dry cloth.

7   Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

8   Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9   Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11 Only use attachments/accessories specified by the manufacturer.

12 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13 Unplug this apparatus during lightning storms or when unused for long periods of time.

14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15 The wall plug is the disconnecting device. The plug must remain readily operable.

16 An apparatus with a three-prong, grounding-type plug is a Class I apparatus, which needs to be grounded to prevent possible electric shock. Make sure that you connect this Class I television to a grounding-type, three-prong outlet.

17 Remote control batteries should not be exposed to excessive heat such as sunshine, fire, or the like.

18 The apparatus should not be exposed to dripping or splashing, and no objects filled with liquids, such as vases, should be placed on the apparatus.

Warnings

Electric shock hazard

To reduce the risk of fire or electric shock, do not remove any cover or expose the device to rain or moisture. No user-serviceable parts are inside. Refer servicing to qualified service technicians.

Lightning

For added protection for your device receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the power outlet and disconnect any antenna or cable system. This helps prevent property damage and personal injury from lightning and power line surges.

Power lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

Handling the LCD panel

• Your TV's screen is made of glass. Do not drop your TV or hit, jolt, or press hard against the LCD panel. If the screen breaks, be careful of broken glass.

• If the LCD panel is broken, make absolutely sure that you do not touch the liquid in the panel. This may cause skin inflammation.

• If the liquid gets in your mouth, immediately gargle, rinse, and consult with your doctor. Also, if the liquid gets in your eyes or touches your skin, consult with your doctor after rinsing for at least 15 minutes or longer in clean water.

Replacement parts

When replacement parts are required, make sure that the service technician uses replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, personal injury, or other hazards.

Safety check

After completing any service or repair to this device, ask the service technician to perform routine safety checks to determine that your TV is in correct operating condition.

Power source

Operate your TV only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult an electrician or your local power company.

## Cautions

Damage requiring service

Unplug this TV from the power outlet and refer servicing to qualified service personnel under the following conditions:

• When the power supply cord or plug is damaged or frayed.

• If liquid has been spilled or objects have fallen into your TV.

• If your TV has been exposed to rain or water.

- If your TV does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions because incorrect adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore your TV to its normal operation.
- If your TV has been dropped or damaged in any way.
- When your TV exhibits a distinct change in performance.

Outdoor antenna grounding

If an outside antenna or cable system is connected to your TV, make sure that the antenna or cable system is grounded to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA No. 70, provides information with respect to correct grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of the antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.
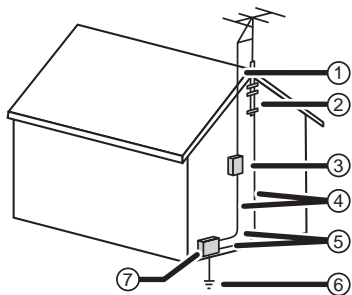
①	Antenna lead-in wire
②	Grounding clamp
③	Antenna discharge unit
④	Grounding conductors
⑤	Ground clamps
⑥	Power service grounding electrode system
⑦	Electric service equipment

Note to CATV system installer

Article 820 of the National Electrical Code, ANSI/NFPA No. 40 provides guidance for correct grounding. Specifically, it states that the cable ground must be connected to the grounding system of the building as close to the point of cable entry as practical.

Condensation

Moisture will form on the TV if the TV is brought from cool surroundings into a warm room or if the temperature of the room rises suddenly. When this happens, the TV's performance may be impaired. To prevent this, let the TV stand in its new surroundings for about an hour before switching it on, or make sure that the room temperature rises gradually. Condensation may also form during the summer if the TV is exposed to the breeze from an air conditioner. In such cases, change the location of the TV.

Mobile telephone warning

To avoid interference with your TV picture and sound, operating problems, or even damage, keep your cordless and cellular telephones away from the TV.

End of life directives

Your TV contains tin-lead solder. Disposal of this material may be regulated for environmental reasons. Your TV also contains material that can be recycled and reused.

Non-active pixels

The LCD panel contains almost 3 million thin film transistors, which provide exceptionally sharp video quality. Occasionally, a few non-active pixels may appear on the screen as a fixed blue, green, or red point. These non-active pixels do not adversely affect the performance of your TV, and are not considered defects.

Note: *The appearance of the product in this User Guide may differ from your actual product, and is for explanatory purposes only.*

Installing the stand or wall-mount bracket

Notes:

- *If you plan to wall-mount your TV, do not install the stand.*
- *Store the stand and stand screws in case you decide to use the stand in the future.*

Installing the stand

To install the stand:

1   Carefully place your TV screen face-down on a cushioned, clean surface to protect the screen from damages and scratches.
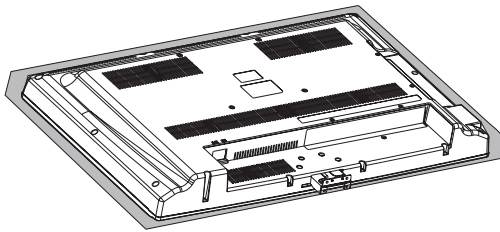
2   Align the screw holes on the stand with the holes on the bottom edge of the TV, then secure the stand with the screws provided (four M5 x 8 mm screws).

Note: *The wide portion of the stand should go towards the front of the TV.*

Locators

Locating grooves

Stand

M5 x 8 mm screws

Installing a wall-mount bracket

Warning: *This apparatus is intended to be supported by a UL Listed wall mount bracket.*

To attach your TV to a wall-mount bracket:

1   Carefully place your TV screen face-down on a cushioned, clean surface to protect the screen from damages and scratches.

2   Remove the screws that secure the stand column to the stand, then remove the stand.

Stand

Remove the screws

3   Remove the four screws that secure the stand column to the TV, then remove the column.

Remove the screws
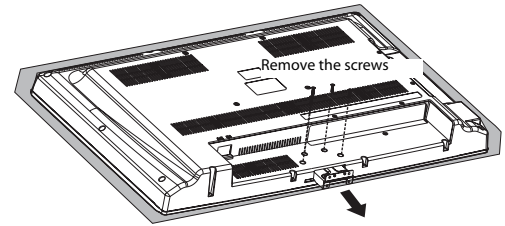
4   Attach the wall-mount bracket to your TV using the mounting holes on the back of your TV. See the instructions that came with the wall-mount bracket for information about how to correctly hang your TV.

Note: *The length of the wall-mount screws vary depending on the wall-mount bracket you purchased. See the instructions that came with the wall-mount bracket for screw lengths.*

7.84 in. (200 mm)

7.84 in. (200 mm)

Wall mount brackets
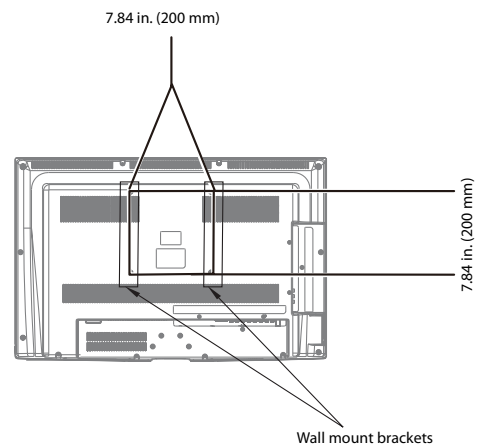
TV components

Package contents

- Remote control and batteries (2 AAA)
- Stand with screws
- Composite cable
- AC power cord
- Quick Setup Guide

Front

#	Item	Description
①	Remote sensor	Receives the signals from the remote control. Do not block.
②	Standby indicator	Lights red when your TV is in standby mode. For more information, see "Turning your TV on or off" on page 15.

Side
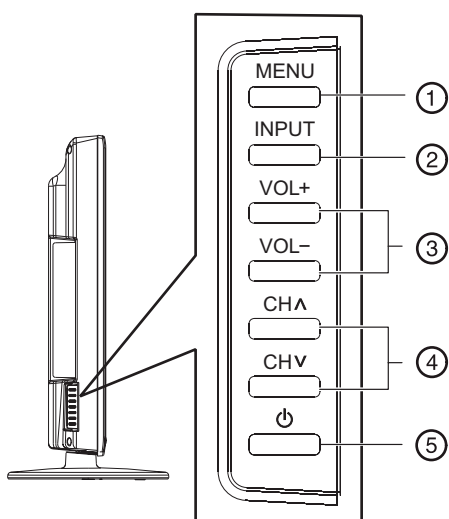
#	Item	Description
①	MENU	Press to open the on-screen menu. For more information, see "Navigating the menus" on page 17.
②	INPUT	Press to open the *INPUT SOURCE* list, then press the up or down arrow to select a video input source. For more information, see "Selecting the video input source" on page 16.
③	VOL+/VOL−	Press to increase or decrease the volume.
④	CH∧/CH∨	Press to go to the next or previous channel in the channel list.
⑤	⏻ (Power)	Press to turn your TV on or off (standby mode). When your TV is in standby mode, power still flows through it. To completely disconnect power, unplug the power cord.

Back

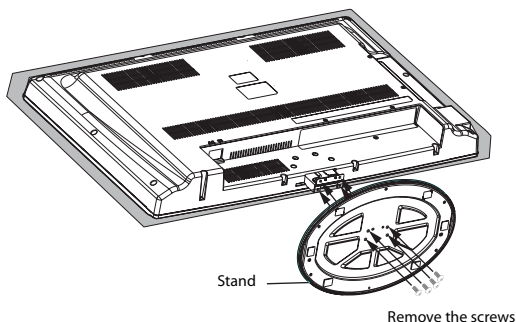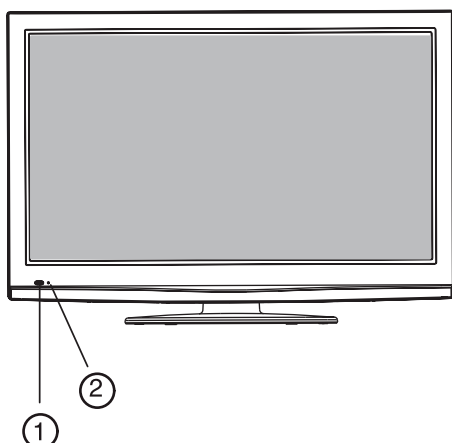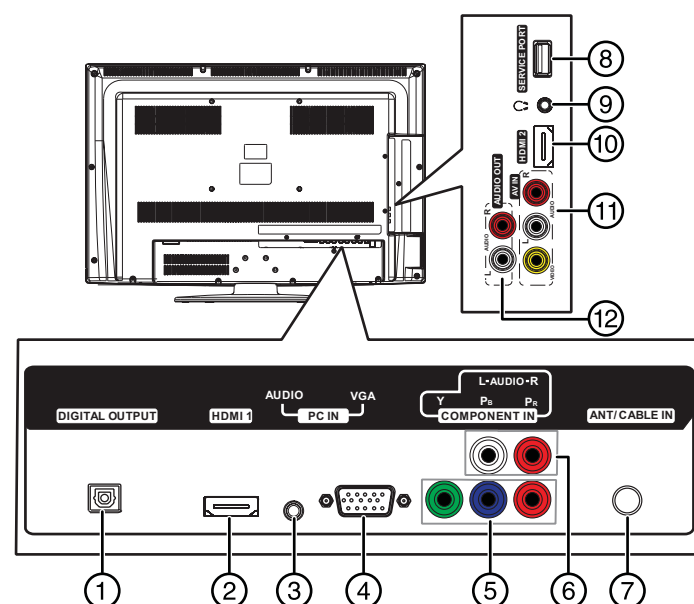| #	Item	Description
①	DIGITAL OUTPUT (SPDIF)	Connect a digital audio amplifier to this jack. For more information, see "Using digital audio" on page 13.
②	HDMI1	Connect an HDMI device to this jack. An HDMI cable carries both video and sound. You do not need to make an audio connection for an HDMI device. For more information, see "Using HDMI (best)" on page 10, or "Using DVI (same as HDMI but requires a sound connection)" on page 10.
③	PC IN AUDIO	Connect the audio for a computer or a DVI device to this jack. For more information, see "Connecting a computer" on page 13 or "Using DVI (same as HDMI but requires a sound connection)" on page 10.
④	PC IN VGA	Connect the video for a computer to this jack. For more information, see "Connecting a computer" on page 13.
⑤	COMPONENT IN Y, PB, PR	Connect the video for a component video device to these jacks. For more information, see "Using component video (better)" on page 11.
⑥	COMPONENT L/R AUDIO	Connect the audio for a component video device connected to the **Y**, **PB**, **PR** jacks. For more information, see "Using component video (better)" on page 11.
⑦	ANT/CABLE IN	Connect an antenna or cable TV to this jack. For more information, see "Connecting an antenna or cable TV (no box)" on page 10.
⑧	Service port	For software update only. Do not use.
⑨	⌒ (headphone)	Connect headphones to this jack. For more information, see "Connecting headphones" on page 13.

#	Item	Description
10	HDMI2	Connect an HDMI device to this jack. An HDMI cable carries both video and sound. You do not need to make an audio connection for an HDMI device. For more information, see "Using HDMI (best)" on page 10, or "Using DVI (same as HDMI but requires a sound connection)" on page 10.
11	AV IN	Connect a standard, composite video device, such as a VCR, to these jacks. For more information, see "Using composite video (good)" on page 11, "Connecting a VCR" on page 12, or "Connecting a camcorder or game console" on page 12.
12	AUDIO OUT L/R (analog audio out)	Connect an analog sound system to these jacks. For more information, see "Using analog audio" on page 14.

Remote control
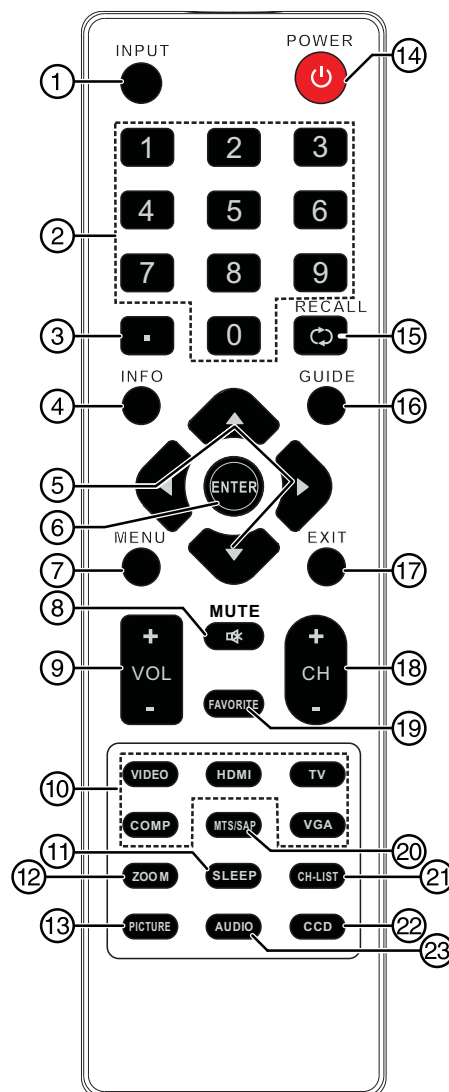
#	Button	Description
1	INPUT	Press to open the *INPUT SOURCE* list, then press the up or down arrow to select a video input source. For more information, see "Selecting the video input source" on page 16.
2	Numbers	Press to enter channel numbers and the parental control password.
3	● (Dot)	Press to enter a digital sub-channel number. For more information, see "Selecting a channel" on page 17.
4	INFO	Press to display TV status information, such as the channel number, channel name (if available), or signal source. For more information, see "Viewing program information" on page 17.
5	▲ ▼ ◄ ►	Press to navigate through the on-screen menus and adjust settings.
6	ENTER	Press to confirm selections or changes.
7	MENU	Press to open the on-screen menu.
8	⌧ MUTE	Press to mute the sound. Press again to restore the sound.
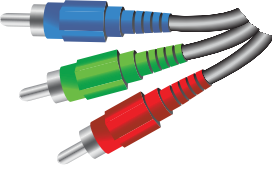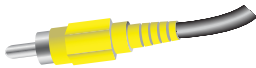
#	Button	Description
⑨	VOL+/VOL–	Press to increase or decrease the volume.
⑩	Video Input	Press to select the input source. **VIDEO**—Press to select the device connected to the **AV IN** jacks. **HDMI**—Press one or more times to select the device connected to the **HDMI 1** or **HDMI 2** jack. **TV**—Press to select the TV input source. **COMP**—Press to select the device connected to the **COMPONENT** video jacks. **VGA**—Press to select the device connected to the **PC IN VGA** jack.
⑪	SLEEP	Press to set the sleep timer. For more information, see "Setting the sleep timer" on page 30.
⑫	ZOOM	Press to select the aspect ratio. For more information, see "Adjusting the TV picture" on page 17.
⑬	PICTURE	Press to select the picture mode. You can select **Vivid**, **Standard**, **Energy Saving**, or **Custom**. For more information, see "Adjusting the TV picture" on page 17.
⑭	⏻ (Power)	Press to turn your TV on or off (Standby mode). When your TV is off, power still flows into it. To disconnect power, unplug the power cord.
⑮	RECALL	Press to go to the last viewed channel.
⑯	GUIDE	Press to display the program guide. For more information, see "Viewing program information" on page 17.
⑰	EXIT	Press to close the on-screen menu.
⑱	CH+ / CH–	Press to go to the next or previous channel in the channel list. For more information, see "Selecting a channel" on page 17.
⑲	FAVORITE	Press to open the *Favorites* channel list. For more information, see "Setting up a favorite channel list" on page 21 and "Viewing a favorite channel" on page 21.
⑳	MTS/SAP	In analog TV mode, press to select **Stereo**, **Mono**, or **SAP**. For more information, see "Adjusting sound settings" on page 19.
㉑	CH-LIST	Press to open the channel list.
㉒	CCD	Press to turn closed captioning on or off. You can select **On, Off**, or **CC On Mute**. For more information, see "Turning closed captioning on or off" on page 27.
㉓	AUDIO	Press to select an audio mode. You can select **Standard**, **News, Music, Movie**, or **Custom**. For more information, see "Adjusting sound settings" on page 19.
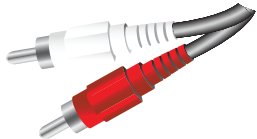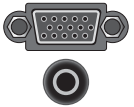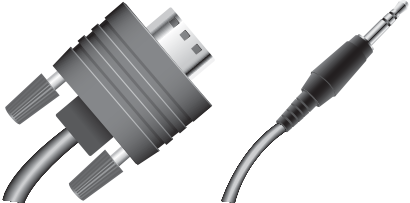
Making connections

What connection should I use?

Your TV has several connection types for connecting devices to your TV. For the best video quality, you should connect a device to the best available connection.
Use the following tables to identify cables:

Connection type and jack	Video quality	Cable connector
HDMI video/audio	Best (use this if your devices have HDMI)	
Component video (requires an audio connection)	Better than composite, or coaxial	
Composite video (requires an audio connection)	Better than coaxial	
Coaxial video/audio	Good	

Connection type and jack	Cable connectors
Digital optical audio (SPDIF)	
Analog audio	
VGA (computer) video and audio	

You can use an HDMI jack to connect a DVI device to your TV. You need to attach an HDMI-to-DVI adapter to the end of the HDMI cable that connects to the DVI device.

Cautions:

- *Check the jacks for position and type before making any connections.*
- *Loose connections can result in image or color problems. Make sure that all connections are tight and secure.*
- *The external audio/video equipment shown may be different from your equipment. If you have questions, refer to the documentation that came with your equipment.*
- *Always unplug the power cord when connecting external equipment.*

Connecting power

To connect the power:
- Connect the AC power cord to the AC connector on the back of your TV, then plug the other end into a power outlet.
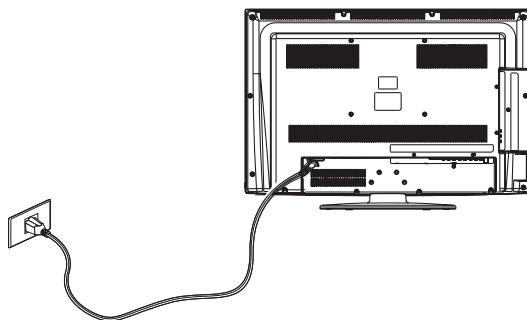
Notes:

- *Your TV should only be operated from the power source indicated on the label.*
- *Always unplug the AC power cord from the power outlet when you will not be using your TV for an extended period of time.*

Connecting a cable or satellite box

Many cable or satellite TV boxes have more than one connection type. To get the best video, you should use the best connection type available. For more information, see "What connection should I use?" on page 7.

Notes:

- *If the signal level for a channel is weak, the picture may be distorted. Adjust the antenna or use a highly directional outdoor or set-top antenna with a built-in amplifier.*
- *If the picture quality is good on some channels and poor on others, the problem may be caused by a poor or weak signal from the broadcaster or cable TV provider.*
- *If you connect to cable or satellite TV without a set-top box and experience poor picture quality, you may need to install a set-top box to improve signal reception and picture quality. Contact your cable or satellite TV provider about upgrading to a set-top box.*
- *Many high-definition (HD) channels upscale standard-definition (SD) content. The picture displayed on your TV is still displayed as SD, thus the picture quality will not be as clear or crisp as it would be if the content was originally recorded in HD.*

Using HDMI (best)

To connect a cable or satellite box using HDMI:
1 Turn off your TV and all connected equipment.
2 Connect the incoming cable from the cable wall jack to the cable-in jack on the cable or satellite box.
3 Connect an HDMI cable (not provided) to one of the HDMI jacks on the back or side of your TV and to the **HDMI OUT** jack on the cable or satellite box.
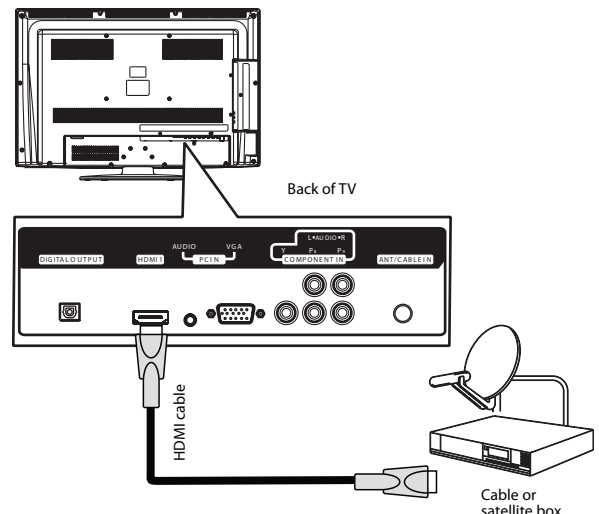
Back of TV

HDMI cable

Cable or satellite box

4 Turn on your TV, then turn on the cable or satellite box.
5 Go through the setup wizard on page 14.

Note: An HDMI cable carries both audio and video. You do not need to use any audio cables.

Using DVI (same as HDMI but requires an audio connection)

To connect a cable or satellite box using DVI:
1 Turn off your TV and all connected equipment.
2 Connect the incoming cable from the cable wall jack to the cable-in jack on the cable or satellite box.
3 Connect an HDMI-DVI adapter (not provided) to one end of an HDMI cable (not provided), then connect it to the **DVI OUT** jack on the cable or satellite box.

4 Connect the other end of the HDMI cable to the **HDMI1** or **HDMI2** jack on the back or side of your TV.

Back of TV

3.5 mm audio cable

HDMI cable with HDMI-DVI adapter

Cable or satellite box

5 Connect a 3.5 mm audio cable (not provided) to the **PC AUDIO IN** jack on the back of your TV and to the **AUDIO OUT** jack on the cable or satellite box.
6 Turn on your TV, then turn on the cable or satellite box.
7 Go through the setup wizard on page 14.

Using component video (better)

To connect a cable or satellite box using component video:
1 Turn off your TV and all connected equipment.
2 Connect the incoming cable from the cable wall jack to the cable-in jack on the cable or satellite box.
3 Connect a component video cable (not provided) to the **COMPONENT IN/Y**, **Pb, Pr** jacks on the back of your TV and to the component video out jacks on the cable or satellite box.

Cable or satellite box

Audio cable

Cables are often color-coded to match color-coded jacks.

Back of TV

Component video cable

4 Connect an audio cable (not provided) to the **L**, **R** audio jacks on the back of your TV and to the audio out jack on the cable or satellite TV box.
5 Turn on your TV, then turn on the cable or satellite box.
6 Go through the setup wizard on page 14.

Using composite video (good)

To connect a cable or satellite box using composite video:
1 Turn off your TV and all connected equipment.
2 Connect the incoming cable from the cable wall jack to the cable-in jack on the cable or satellite box.
3 Connect a composite cable (provided) to the **VIDEO, L** and **R** jacks on the side of your TV and to the composite video and audio out jacks on the cable or satellite box.
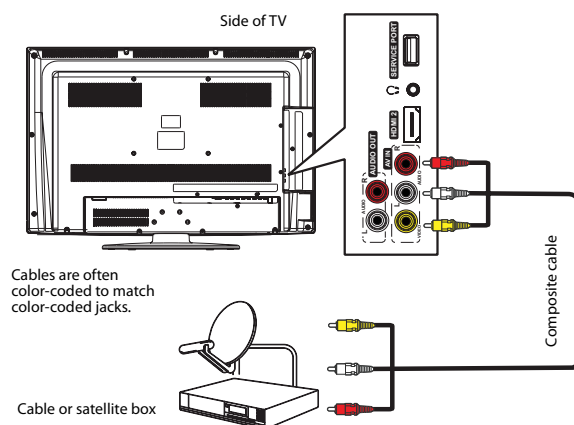
Side of TV

Cables are often color-coded to match color-coded jacks.

Composite cable

Cable or satellite box

4 Turn on your TV, then turn on the cable or satellite box.
5 Go through the setup wizard on page 14.

Using coaxial (good)

To connect a cable or satellite box using coaxial:
1 Turn off your TV and all connected equipment.
2 Connect the incoming cable from the cable wall jack to the cable-in jack on the cable or satellite box.
3 Connect a coaxial cable (not provided) to the **ANT/CABLE IN** jack on the back of your TV and to the coaxial out jack on the cable or satellite box.
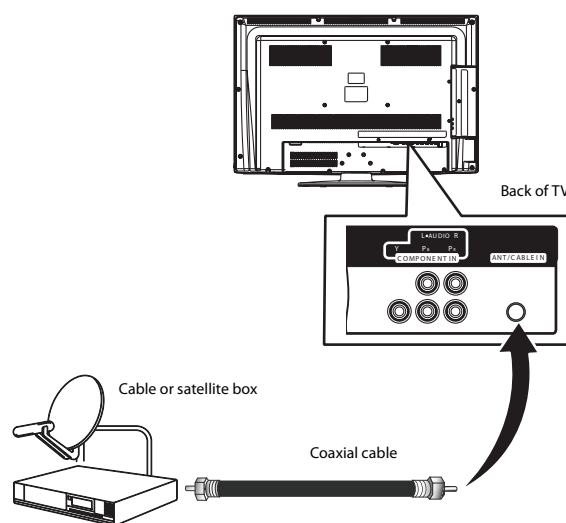
Back of TV

Cable or satellite box

Coaxial cable

4 Turn on your TV, then turn on the cable or satellite box.
5 Go through the setup wizard on page 14.

Note: *Do not bundle (tie together) the coaxial cable with the power cord or other cables.*

Connecting an antenna or cable TV (no box)

To connect an antenna or cable TV (no box):
1. Turn off your TV and all connected equipment.
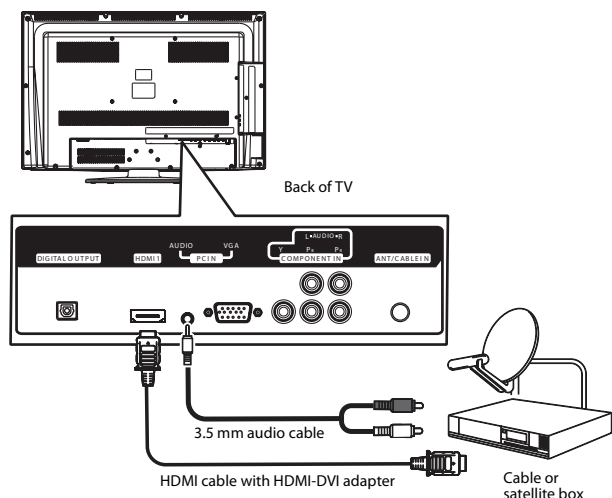2. Connect a coaxial cable (not provided) to the **ANT/CABLE IN** jack on the back of your TV and to the antenna or cable TV wall jack.

Back of TV
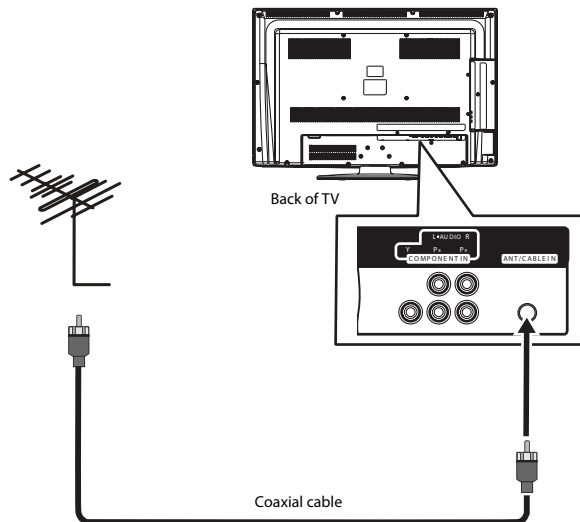
Coaxial cable

3. Turn on your TV, then go through the setup wizard on page 14.

   Notes:
   - Do not bundle (tie together) the coaxial cable with the power cord or other cables.
   - If the antenna is not installed correctly, contact qualified service personnel to correct the problem.

Connecting a DVD or Blu-ray player

Using HDMI (best)

To connect a DVD or Blu-ray player using HDMI:
1. Make sure that your TV's power cord is unplugged and the DVD or Blu-ray player is turned off.
2. Connect an HDMI cable (not provided) to the **HDMI1** or **HDMI2** jack on the back or side of your TV and to the **HDMI OUT** jack on the DVD or Blu-ray player.

Back of TV

HDMI cable   DVD or Blu-ray player
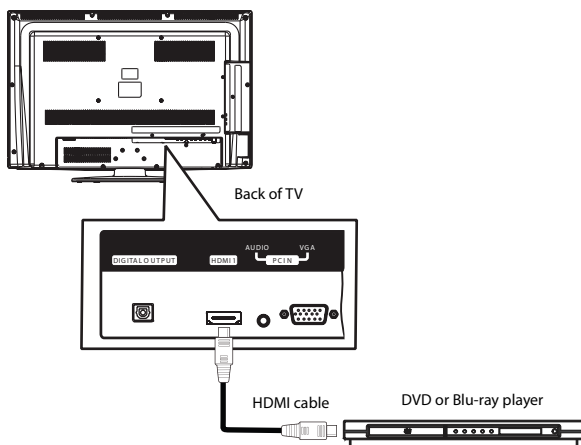
To play a DVD or Blu-ray player using HDMI:
1. Turn on your TV, then press **INPUT** to open the *INPUT SOURCE* list.
2. Press ▲ or ▼ to select **HDMI1** or **HDMI2**, then press **ENTER**.

   *Note: You can also press **HDMI** repeatedly to select **HDMI1** or **HDMI2**.*

3. Turn on the DVD or Blu-ray player, then set it to the output mode. See the documentation that came with the device for more information.

Using DVI (same as HDMI but requires a sound connection)

To connect a DVD or Blu-ray player using DVI:
1. Make sure that your TV's power cord is unplugged and the DVD or Blu-ray player is turned off.
2. Connect an HDMI-DVI adapter (not provided) to one end of an HDMI cable (not provided), then connect it to the **DVI OUT** jack on the DVD or Blu-ray player.
3. Connect the other end of the HDMI cable to the **HDMI1** or **HDMI2** jack on the back or side of your TV.

Back of TV

HDMI cable with   3.5mm audio cable
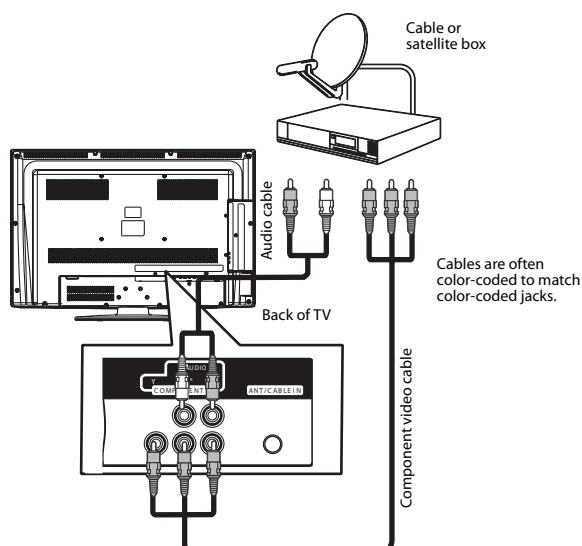DVI adapter
                                    DVD or Blu-ray player

4. Connect a 3.5mm audio cable (not provided) to the **PC AUDIO IN** jack on the back of your TV and to the **AUDIO OUT** jack on the DVD or Blu-ray player.

   Note: *When you connect the audio using the **PC AUDIO IN** jack, the audio output is analog.*

To play a DVD or Blu-ray player using DVI:
1. Turn on your TV, then press **INPUT** to open the *INPUT SOURCE* list.
2. Press ▲ or ▼ to select **HDMI1** or **HDMI2**, then press **ENTER**.

   Note: *You can also press **HDMI** repeatedly to select **HDMI1** or **HDMI2**.*

3. Turn on the DVD or Blu-ray player, then set it to the output mode. See the documentation that came with the device for more information.

Using component video (better)

To connect a DVD or Blu-ray player using component video:
1. Make sure that your TV's power cord is unplugged and the DVD or Blu-ray player is turned off.
2. Connect a component video cable (not provided) to the **COMPONENT IN/Y**, **Pʙ**, **Pʀ** jacks on the back of your TV and to the **COMPONENT OUT** jacks on the DVD or Blu-ray player.

DVD or Blu-ray player

Audio cable

Back of TV

Cables are often color-coded to match color-coded jacks.

Component video cable
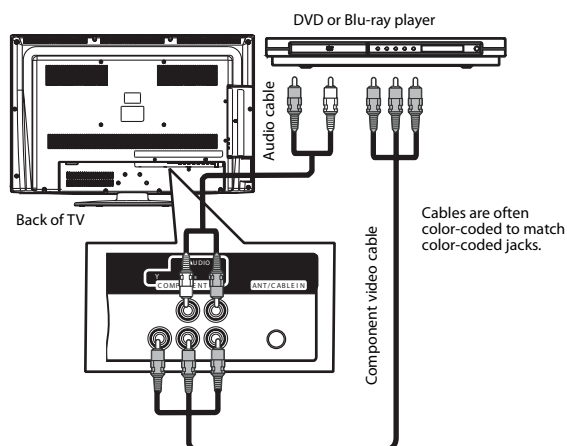
3. Connect an audio cable (not provided) to the **L** and **R** audio jacks on the back of your TV and to the **L/R AUDIO OUT** jacks on the DVD or Blu-ray player.

   Note: When you connect the audio using the L and R audio jacks, the audio output is analog.

To play a DVD or Blu-ray player connected with component video:
1. Turn on your TV, then press **INPUT** to open the *INPUT SOURCE* list.
2. Press ▲ or ▼ to select **Component**, then press **ENTER**.

   Note: You can also press COMP to select the DVD or Blu-ray player.

3. Turn on the DVD or Blu-ray player, then set it to the output mode. See the documentation that came with the DVD or Blu-ray player for more information.

Using composite video (good)

To connect a DVD or Blu-ray player using composite video:
1. Make sure that your TV's power cord is unplugged and the DVD or Blu-ray player is turned off.
2. Connect a composite cable (provided) to the **VIDEO** and **L** and **R** audio jacks on the side of your TV and to the **AV OUT** jacks on the DVD or Blu-ray player.

   Note: When you connect the audio using the L and R audio jacks, the audio output is analog.

Side of TV

Cables are often color-coded to match color-coded jacks.
Connect yellow to yellow, red to red, and white to white.

Composite cable

DVD or Blu-ray player
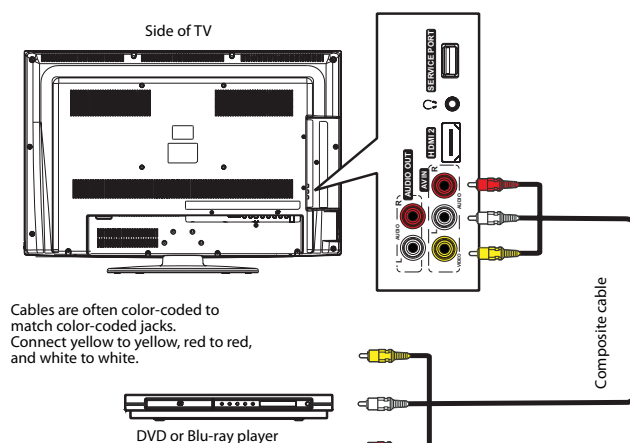
To play a DVD or Blu-ray player connected with composite video:
1. Turn on your TV, then press **INPUT** to open the *INPUT SOURCE* list.
2. Press ▲ or ▼ to select **AV**, then press **ENTER**.

   Note: You can also press VIDEO to select the DVD or Blu-ray player.

3. Turn on the DVD or Blu-ray player, then set it to the output mode. See the documentation that came with the DVD or Blu-ray player for more information.

Connecting a VCR

To connect a VCR:

1 Make sure that your TV's power cord is unplugged and the VCR is turned off.

2 Connect a composite cable (provided) to the **VIDEO** and **L** and **R** audio jacks on the side of your TV and to the **AV OUT** jacks on the VCR.

*Note: When you connect the audio using the **L** and **R** audio jacks, the audio output is analog.*
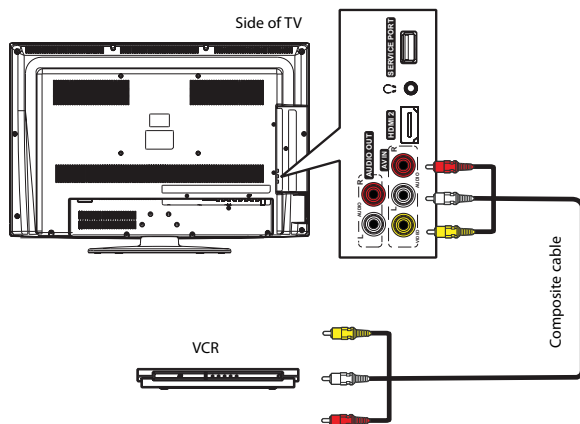
Cables are often color-coded to match color-coded jacks.
Connect yellow to yellow, red to red, and white to white.

To play from the VCR:

1 Turn on your TV, then press **INPUT** to open the *INPUT SOURCE* list.

2 Press ▲ or ▼ to select **AV**, then press **ENTER**.

*Note: You can also press **VIDEO** to select the VCR.*

3 Turn on the VCR, then set it to the output mode. See the documentation that came with the VCR for more information.

Connecting a camcorder or game console

To connect a camcorder or game console:

1 Make sure that your TV's power cord is unplugged and the camcorder or game console is turned off.

2 Connect a composite cable (provided) to the **VIDEO** and **L** and **R** audio jacks on the side of your TV and to the **AV OUT** jacks on the camcorder or game console.

*Note: When you connect the audio using the **L** and **R** audio jacks, the audio output is analog.*
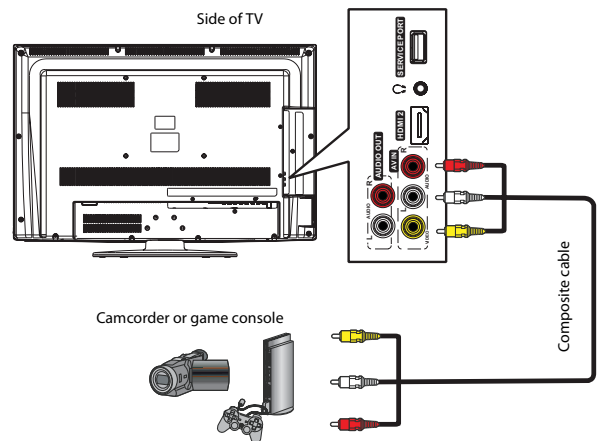
Cables are often color-coded to match color-coded jacks.
Connect yellow to yellow, red to red, and white to white.

To play from the camcorder or game console:

1 Turn on your TV, then press **INPUT** to open the *INPUT SOURCE* list.

2 Press ▲ or ▼ to select **AV**, then press **ENTER**.

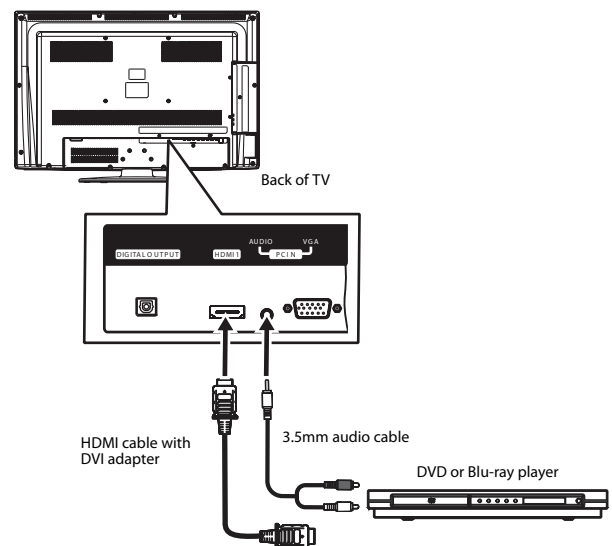*Note: You can also press **VIDEO** to select the device.*

3 Turn on the camcorder or game console, then set it to the output mode. See the documentation that came with the device for more information.

Connecting a computer

Tip: *Some computers have an HDMI jack. You can use an HDMI cable to connect the computer for a better picture.*

Using VGA

To connect a computer using VGA:
1 Make sure that your TV's power cord is unplugged and the computer is turned off.
2 Connect a VGA cable (not provided) to the **PC IN VGA** jack on the back of your TV and to the **VGA** jack on the computer.

Back of TV

VGA cable

Audio cable with stereo mini plug
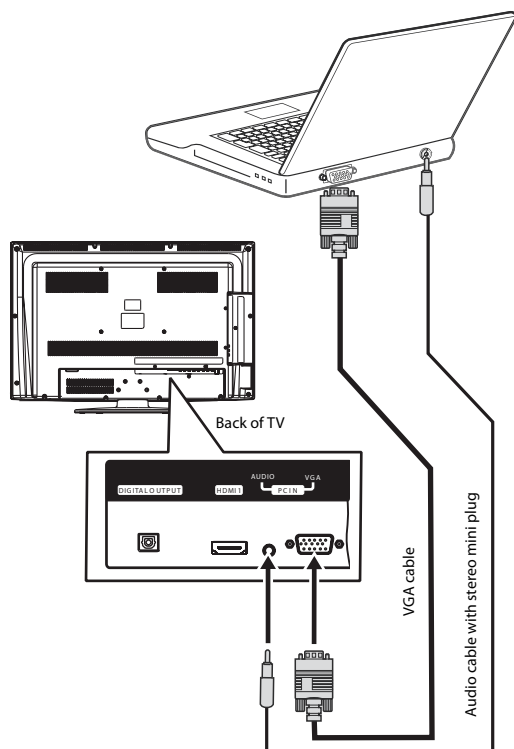
3 Connect an audio cable with stereo mini plug (not provided) to the **PC IN AUDIO** jack on the back of your TV and to the **LINE OUT** or **AUDIO OUT** jack on the computer.

To play video from the computer:
1 Turn on your TV, then press **INPUT** to open the *INPUT SOURCE* list.
2 Press ▲ or ▼ to select **VGA**, then press **ENTER**.
3 Turn on the computer and adjust the display properties if necessary.

Note: *You can also press **VGA** to select the computer.*

Using HDMI

To connect a computer using HDMI:
1 Make sure that your TV's power cord is unplugged and the computer is turned off.
2 Connect an HDMI cable (not provided) to an **HDMI** jack on the back or side of your TV and to the **HDMI OUT** jack on the computer.
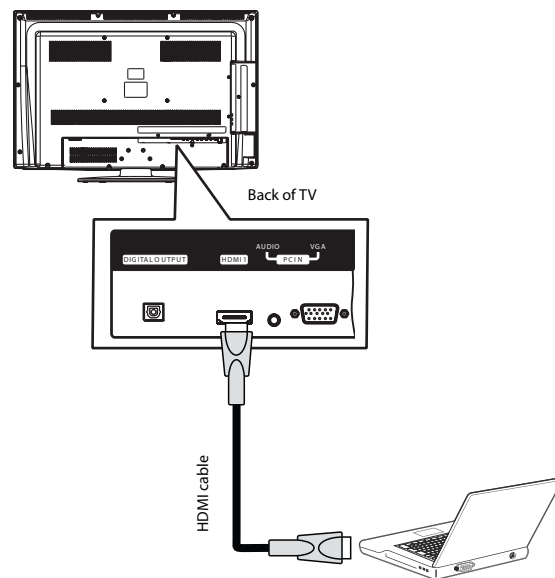
Back of TV

HDMI cable

To play video from the computer:
1 Turn on your TV, then press **INPUT** to open the *INPUT SOURCE* list.
2 Press ▲ or ▼ to select **HDMI 1** or **HDMI 2**, then press **ENTER**.

Note: *You can also press **HDMI** repeatedly to select **HDMI1** or **HDMI2**.*

3 Turn on the computer and adjust the display properties if necessary.

Connecting headphones

The TV speakers are muted when headphones are attached.

Warning: *Loud noise can damage your hearing. When using headphones, use the lowest volume setting on your headphones that still lets you hear the sound.*

To connect headphones:
• Connect headphones to the ◯ (headphone) jack on the side of your TV.

Side of TV
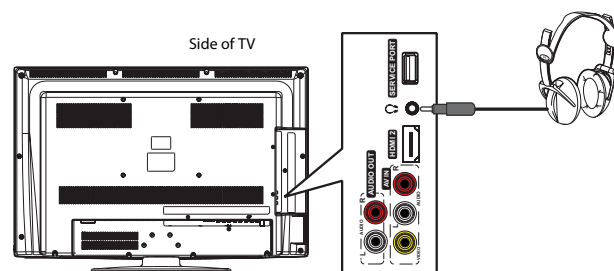
Connecting a basic home theater system

Using digital audio

To connect a basic home theater system using digital audio:
1 Make sure that your TV's power cord is unplugged and the home theater system is turned off.

2 Connect a digital optical audio cable (not provided) to **DIGITAL OUTPUT** jack on the back of your TV and to the digital optical audio jack on the digital home theater system.

Home theater system

Back of TV

DIGITAL OUTPUT   HDMI 1   AUDIO   VGA
                           PC IN

Digital audio cable
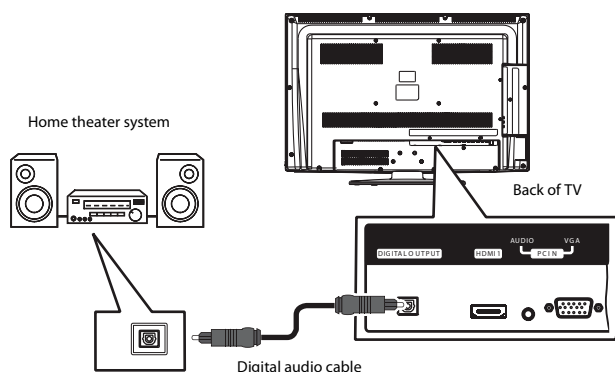
Using analog audio

To connect a basic home theater system using analog audio:

1 Make sure that your TV's power cord is unplugged and the home theater system is turned off.

2 Connect an audio cable (not provided) to the **AUDIO OUT** jacks on the side of your TV and to the **AUDIO IN** jacks (L/R) on the home theater system.

L • AUDIO • R

Home theater system

Side of TV

Analog audio cable
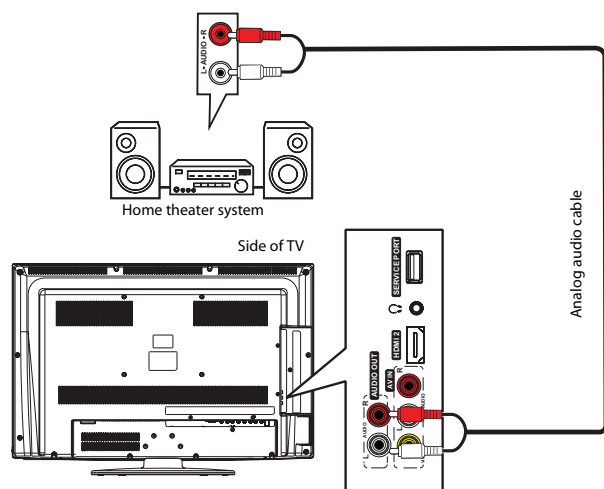
Using the remote control

Installing remote control batteries

To install the remote control batteries:

1 While pressing the cover release latch on the back of the remote control, lift the cover off the remote control.

①   ②
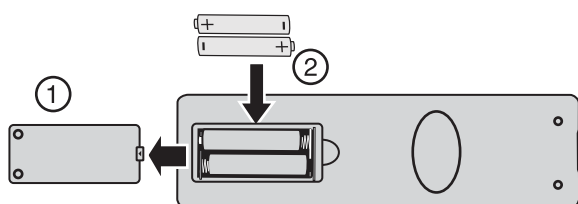
2 Insert two AAA batteries into the battery compartment. Make sure that you match the + and − symbols on the batteries with the + and − symbols in the battery compartment.

3 Replace the battery cover.

③
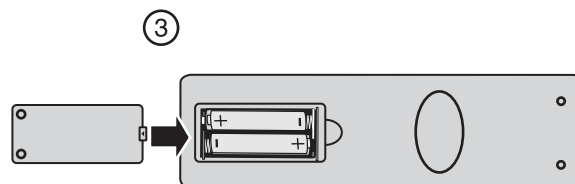
Cautions:

- *Batteries should not be exposed to excessive heat, such as sunshine, heat registers, or fire.*
- *Battery chemicals can cause a rash. If the batteries leak, clean the battery compartment with a cloth. If chemicals touch your skin, wash immediately.*
- *Make sure that batteries are disposed of correctly. Do not burn or incinerate.*

Notes:

- *Do not mix batteries of different types.*
- *Do not mix old and new batteries.*
- *Remove batteries when the charge is depleted.*
- *If the remote control is not going to be used for an extended period of time, remove the batteries.*

Aiming the remote control

To aim the remote control:

- Point the remote control towards the remote sensor on the front of your TV.

Turning on your TV for the first time

The first time you turn on your TV, the *Setup Wizard* opens. The *Setup Wizard* guides you through setting up basic settings including the menu language, date and time, picture mode, and TV signal source.

To set up your TV:

1 Make sure that you have:

- Installed the remote control batteries. (See page 14 for details).
- Connected an antenna, cable TV, or satellite TV. (See page 8 to page 10 for details.)
- Connected the power cord. (See page 8 for details.)

2 Press ⏻ (Power), then wait several seconds. The *Choose Your Menu Language* screen opens.

DYNEX   **Setup Wizard**

Choose Your Menu Language

✔ **English**

○ **Français**

○ **Español**

Next ▶

⊼⊻ Move   ◁▷ Select   (MENU) Back   (EXIT) Exit
Set menu language to English, Français, or Español.

3 Press ▲ or ▼ to highlight a language, then press **ENTER**. The *Choose Your Time Setting* screen opens.
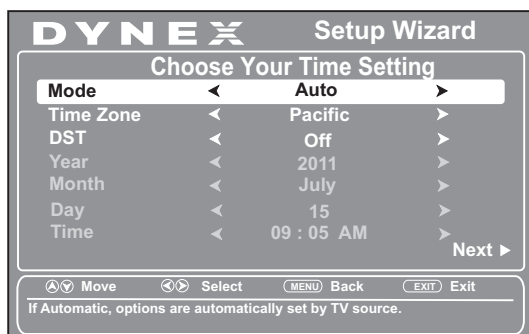
DYNEX Setup Wizard
Choose Your Time Setting

Mode	◄	Auto	►
Time Zone	◄	Pacific	►
DST	◄	Off	►
Year	◄	2011	►
Month	◄	July	►
Day	◄	15	►
Time	◄	09 : 05 AM	►
			Next ►

Ⓐ▼ Move   ◄► Select   (MENU) Back   (EXIT) Exit
If Automatic, options are automatically set by TV source.

4 Press ▲ or ▼ to highlight **Mode**, then press ◄ or ► to select **Manual** (to set the date and time manually), or **Auto** (to set the date and time automatically from a TV signal source, based on the time zone you select).

5 Press ▲ or ▼ to highlight **Time Zone**, then press ◄ or ► to select your time zone. Choices include **Eastern**, **Central**, **Mountain**, **Pacific**, **Alaska**, **Hawaii**, **Atlantic**, or **Newfoundland**.

6 Press ▲ or ▼ to highlight **DST**, then press ◄ or ► to select **On** (if your viewing area observes Daylight Savings Time), or **Off** (if your viewing area does not observe Daylight Savings Time).

7 If you selected **Manual** for **Mode**, set the date by pressing ▲ or ▼ to highlight **Year, Month,** or **Day**, then press ◄ or ► to change the setting.

8 If you selected **Manual** for **Mode**, set the time by pressing ▲ or ▼ to highlight **Time**, then press ◄ or ► to highlight the **hour, minute,** or **AM/PM**.

9 Press ▲ or ▼ to adjust the setting.

10 Press ▼ to highlight **Next**, then press ◄ or ►, or **ENTER**. The *Choose Your Picture Mode* screen opens. If you want to return to the *Choose Your Menu Language* screen, press **MENU**.

DYNEX Setup Wizard

Choose Your Picture Mode

✓ **Home Mode**

○ **Retail Mode**

Next ►

Ⓐ▼ Move   ◄► Select   (MENU) Back   (EXIT) Exit
Reduces total power consumption.
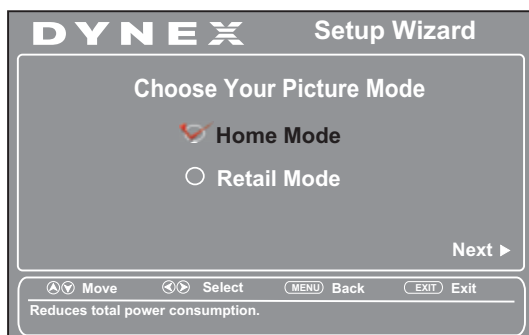
11 Press ▲ or ▼ to highlight **Home Mode** or **Retail Mode**, then press **ENTER**.

If you selected **Home Mode**, the *Choose Your TV Source* screen opens.

DYNEX Setup Wizard

Choose Your TV Source

✓ **Antenna**	RF CH : 0
○ **Cable**	⓪ **Digital Channels**
○ **Cable/Satellite Box**	⓪ **Analog Channels**

Scan for channels

Ⓐ▼ Move   ◄► Select   (MENU) Back   (EXIT) Exit
Select Antenna if using an antenna for standard or HD TV.
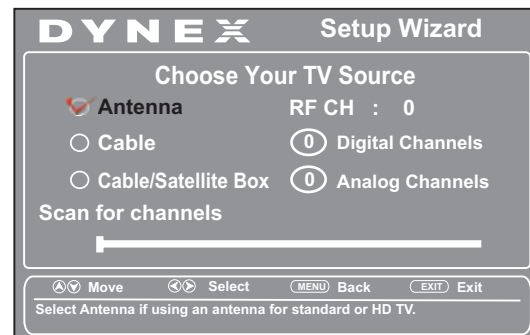
-OR-

If you selected **Retail Mode**, a message appears "Are you sure you want retail mode?" Select **Yes** to continue, or select **No** to exit.

12 Press ▲ or ▼ to highlight **Antenna**, **Cable**, or **Cable/ Satellite Box** (if your cable TV uses a box, select **Cable/Satellite Box**), then press **ENTER**.

• If you chose **Antenna** or **Cable**, your TV automatically starts scanning for channels available in your viewing area. If you chose **Cable/Satellite box**, your TV does not need to scan for channels.

• When you select **Antenna**, during the auto channel scan your TV searches for digital channels first. When the digital channel search is complete, a message appears asking if you want to search for analog channels. You can ignore the message to continue scanning, or press **MENU** or **EXIT** to stop searching for channels.

Note: *The channel scan can take up to 20+ minutes. You can press **EXIT** at any time to stop the auto scan, but you will need to run the auto scan again to create a channel list.*

13 To watch TV, press **INPUT**, press ▲ or ▼ to highlight the video input source for your TV in the *INPUT SOURCE* list, then press **ENTER.**

• If your TV is connected to an antenna, cable TV (no box), or cable or satellite TV box using a coaxial cable, select **TV**.

• If your TV is connected to a cable or satellite box using an HDMI cable or HDMI cable with a DVI adapter, select **HDMI 1** or **HDMI 2**.

• If your TV is connected to a cable or satellite box using a component video cable, select **Component.**

• If your TV is connected to a cable or satellite box using a composite video cable, select **AV**.

Understanding the basics

Turning your TV on or off

To turn your TV on or off:

1 Make sure that the power cord is connected to a power outlet.

2 Press ⏻ (Power) to turn on your TV. The power indicator LED turns off.

3 Press ⏻ (Power) again to turn off your TV. Your TV enters Standby mode.

Selecting the video input source

To select the video input source:
1   Turn on your TV, then press **INPUT**. The *INPUT SOURCE* list opens.

```
        INPUT SOURCE

            TV
            AV
         Component
           HDMI1
           HDMI2
            VGA
```
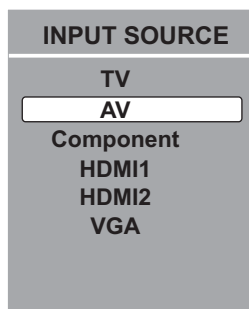
2   Press ▲ or ▼ to highlight the video input source, then press **ENTER**. You can also press a direct input button on the remote control to select the video input source.
  • Press **VIDEO** to select the device connected to the **AV IN** jacks.
  • Press **HDMI** one or more times to select the device connected to the **HDMI 1** or **HDMI 2** jack.
  • Press **TV** to select the TV input source.
  • Press **COMP** to select the device connected to the **COMPONENT** video jacks.
  • Press **VGA** to select the device connected to the **PC IN VGA** jack.

Using the on-screen menus

Notes:
  • *Depending on the signal source selected, you may see different options on your screen. The following menus are shown in TV mode.*
  • *Menu items that are not selectable are grayed out.*
  • *Menus in this manual are described in TV mode, unless otherwise indicated.*
  • *The screens shown in this manual are for explanation purposes and may vary from the actual screens on your TV.*

Picture menu (TV mode)

```
DYNEX              Picture  Audio  Settings  Channels

Picture Mode      ◄      Custom       ►
Contrast          ─────────────●──     70
Brightness        ──────●───────────   40
Color             ──────────●────────   60
Tint              ───────●──────────    0
Sharpness         ───────●──────────    50
Backlight         ──────────────●──    30
Advanced Video                      ►
Reset Picture Settings              ►

Ⓐ Ⓥ Move    ◄ ► Select   MENU Back   EXIT Exit
Adjust settings to affect picture quality.
```

Audio menu (TV mode)

```
DYNEX              Picture  Audio  Settings  Channels

Sound Mode         ◄      Custom       ►
Surround           ◄       Off         ►
Treble             ──────────────●──   57
Bass               ──────────●────────  50
Balance            ──────────●────────  0
Auto Volume        ◄       Off         ►
Digital Audio/SPDIF ◄      RAW         ►
Audio Language     ◄     English       ►
MTS/SAP            ◄      Mono         ►
Reset Audio Settings                  ►

Ⓐ Ⓥ Move    ◄ ► Select   MENU Back   EXIT Exit
Adjust settings to affect sound quality.
```

Settings menu (TV mode)

```
DYNEX              Picture  Audio  Settings  Channels

Parental Controls                   ►
Time                                ►
Closed Caption                      ►
Menu Settings                       ►
Computer Settings                   ►
Input Label                         ►
System Info                         ►
Restore Default                     ►

Ⓐ Ⓥ Move    ◄ ► Select   MENU Back   EXIT Exit
Set various TV options.
```

Channels menu (TV mode)

```
DYNEX              Picture  Audio  Settings  Channels

Auto Channel Scan  ◄     Antenna      ►
Add/Skip Channels                   ►
Favorites                           ►
Channel Label      ◄    WGBH-SD      ►
Channel Strength                    ►
Audio Only         ◄       Off        ►
Auto Zoom          ◄       Off        ►

Ⓐ Ⓥ Move    ◄ ► Select   MENU Back   EXIT Exit
Adjust channel options.
```

Navigating the menus

MENU

Press **MENU** to open the on-screen menu.

Press ◄ or ► to move the cursor on the screen or to adjust a selected item.

Press ▲ or ▼ to select menu options.

Press **ENTER** to confirm a selection or enter a sub-menu.

MENU

Press **MENU** to return to the previous menu.

EXIT

Press **EXIT** to close the menu.

Selecting a channel

To select a channel:
- Press **CH+** or **CH–** to go to the next or previous channel on the memorized channel list.
- Press the number buttons to enter the channel number you want, then wait for the channel to change or press **ENTER** to immediately change the channel.
- To select a digital sub-channel, press the number buttons to select the main digital channel, press • (dot), then press the number button for the sub-channel. Wait for the channel to change, or press **ENTER** to immediately change the channel.
- Press **RECALL** to go to the last viewed channel. Press **RECALL** again to return to the channel you were watching.
- Press **CH-LIST** to open the channel list, press ▲ or ▼ to highlight a channel, then press **ENTER**. Hidden channels are grayed out on the Channel list.
- Press **FAVORITE** to open the favorite channel list, press ▲ or ▼ to highlight a channel, then press **ENTER**.

  Note: If a list has more than one page, press ◄ or ► to scroll through the pages.

Adjusting the volume

To adjust the volume:
- Press **VOL+** or **VOL–** to increase or decrease the volume.
- Press ⌀ **MUTE** to turn off the sound. Press ⌀ **MUTE** again to turn the sound back on.

Viewing program information

To view channel information:
- Press **INFO** to view an information banner. The information banner shows the current program information such as channel number, video input source, and resolution.

- Digital channel information—Displays the channel number, station name, channel label, broadcast program name, TV rating, signal type, audio information, resolution, CC mode, current time, and current program start and end times.
- Analog channel information—Displays channel number, channel label (if preset), signal type, audio information, and resolution.
- Press **GUIDE** to show the digital program guide, which may present a list of available programs, program times, and program summaries, depending on the information provided by the broadcaster.

Adjusting the picture

Adjusting the TV picture

To adjust the TV picture:
1 Press **MENU**. The on-screen menu opens with the *Picture* menu displayed.

```
DYNEX                [Picture] [Audio] [Settings] [Channels]
                      Picture   Audio   Settings  Channels

Picture Mode      ◄        Custom        ►
Contrast          ▬▬▬▬▬▬▬▬▬▬▬●▬▬▬      70
Brightness        ▬▬▬▬▬●▬▬▬▬▬▬▬▬      40
Color             ▬▬▬▬▬▬▬▬▬●▬▬▬▬      60
Tint              ▬▬▬▬▬▬●▬▬▬▬▬▬▬       0
Sharpness         ▬▬▬▬▬▬▬●▬▬▬▬▬▬      50
Backlight         ▬▬▬▬▬▬▬▬▬▬▬▬●      30
Advanced Video                          ►
Reset Picture Settings                  ►

▲▼ Move      ◄► Select    (MENU) Back    (EXIT) Exit
Adjust settings to affect picture quality.
```
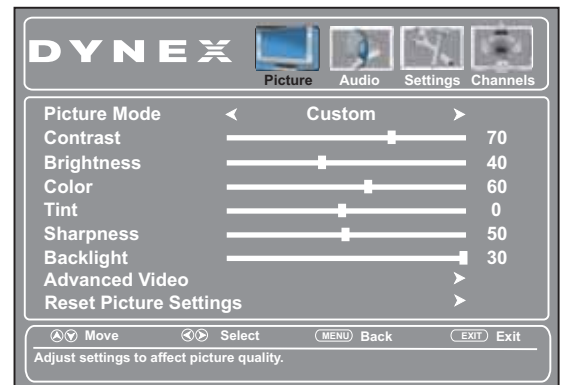
2 Press ▼ to access the menu.
3 Press ▲ or ▼ to highlight an option, press ◄ or ► to adjust the setting, or press ► or **ENTER** to go to the sub-menu. You can select:
- **Picture Mode**—Selects the picture mode. You can select:
  - **Vivid**—Provides a bright and vivid picture.
  - **Standard**—Provides a standard picture.
  - **Energy Saving**—Reduces the brightness and backlight levels to save energy.
  - **Custom**—Lets you manually customize the picture settings.

  *Note: You can also press **PICTURE** to select the picture mode.*

- **Contrast**—Adjusts the brightness of the light areas of the picture.
- **Brightness**—Adjusts the brightness of the dark areas of the picture.
- **Color**—Adjusts the color intensity of the picture. A low setting may make the color look faded. A high setting may make the color look artificial.
- **Tint**—Adjusts the color balance of the picture. Use this control to make skin tones look more natural.
- **Sharpness**—Adjusts the color detail of images. If you set this control too high, dark images may appear with light or white edges.
- **Backlight**—Sets the overall brilliance of the screen (not available when Picture Mode is set to **ENERGY SAVING**).

• **Advanced Video**—Opens the *Advanced Video* sub-menu where you can adjust additional video options.
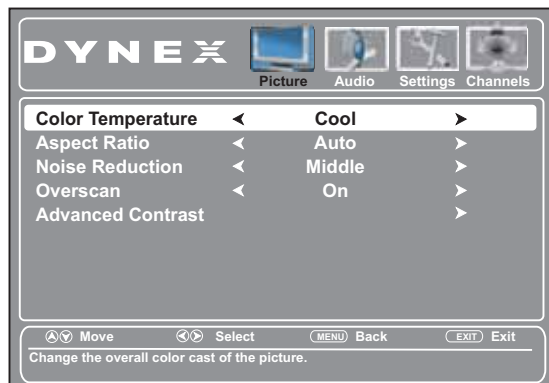
• **Color Temperature**—Selects the color temperature. You can select **Cool** (to enhance the blues), **Normal**, or **Warm** (to enhance the reds).
• **Aspect Ratio**—Selects the aspect ratio of the picture.

Aspect ratio option	Example
Normal: Displays the original 4:3 aspect ratio with vertical black bars on the left and right of the image. If the original aspect ratio is 16:9, the image displays in 16:9.	
Zoom: Expands the image to fill the screen. The top and bottom of the image may be cropped.	
Wide: Use this option to view content recorded in a 16:9 (wide-screen) aspect ratio.	
Cinema: Stretches the image at the edges, but keeps a clear image in the center.	
Auto: The picture display is adjusted to the correct aspect ratio automatically (TV mode only). This setting is only active when **Auto Zoom** in the *Channels* menu is set to **On**.	

*Note: You can also press **ZOOM** to select the aspect ratio.*

• **Noise Reduction**—Selects the noise reduction mode to reduce picture noise (snow). You can select **Low**, **Middle**, **Strong**, or **Off**.
• **Overscan—**This feature extends part of the display past the visible area of the screen. The resulting picture will "zoom in" on the image center. You can select **On** or **Off**.
• **Advanced Contrast**—Opens a sub-menu where you can adjust the following:

• **Adaptive Contrast**–Automatically adjusts picture detail and brightness. You can select **On** or **Off**.
• **Dynamic Contrast Ratio**—Enhances the contrast ratio between light and dark areas of the picture. You can select **On** or **Off**. If this is set to **On**, **Backlight** cannot be adjusted.
• **Reset Picture Settings**—Reset all picture settings to factory mode.

4   Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Adjusting the computer image

To adjust the computer image:

1   Make sure that your TV is in VGA mode. For more information, see "Selecting the video input source" on page 16.

2   Press **MENU**. The on-screen menu opens with the *Picture* menu displayed.
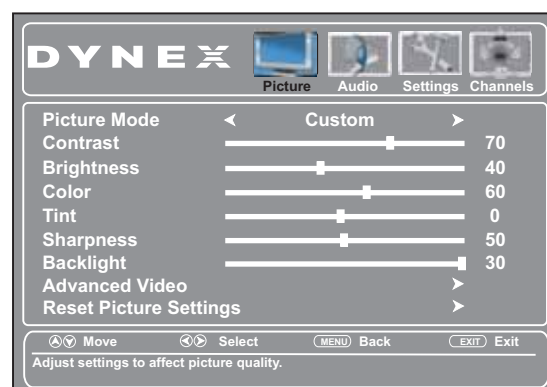
3   Press ◄ or ► to highlight **Settings**, then press ▼. The *Settings* menu opens.
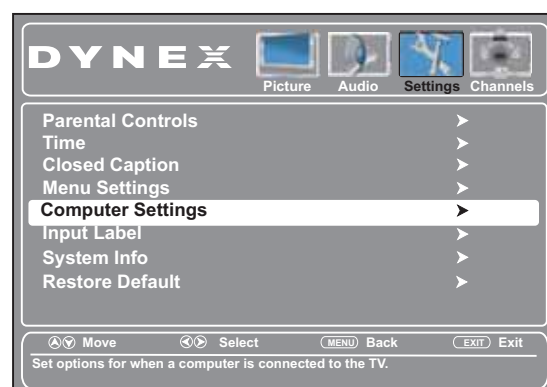
4   Press ▲ or ▼ to highlight **Computer Settings**, then press **ENTER**. The *Settings-Computer settings* menu opens.
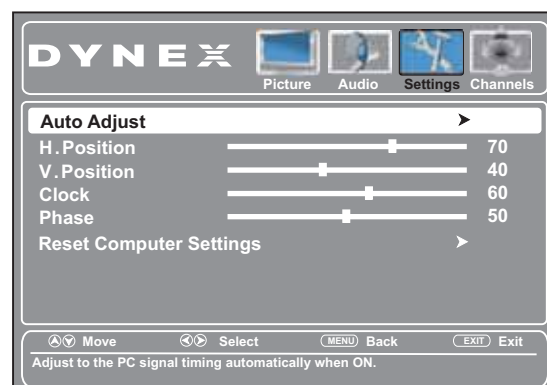
5 Press ▲ or ▼ to highlight an option, then press ◄ or ► to adjust the option. You can select:
- **Auto Adjust**—Automatically adjusts the image settings such as position and phase.
- **H. Position**—Moves the image right or left.
- **V. Position**—Moves the image up or down.
- **Clock**—Adjusts the sample frequency.
- **Phase**—Adjusts the focus of stable images.
- **Reset Computer Settings**—Resets computer settings to factory default.

6 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Adjusting the sound

Adjusting sound settings

To adjust the sound settings:

1 Press **MENU**. The on-screen menu opens with the *Picture* menu displayed.
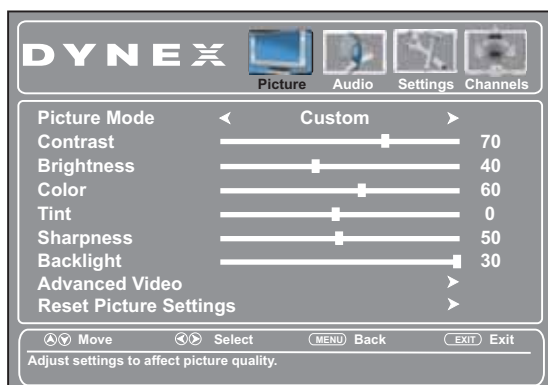
2 Press ◄ or ► to highlight **Audio**, then press ▼. The *Audio* menu opens.
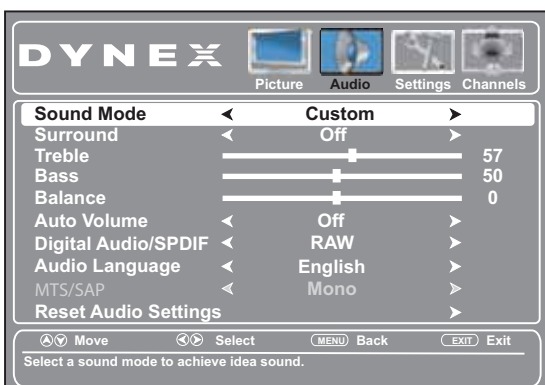
3 Press ▲ or ▼ to highlight an option, then press ◄ or ► to adjust the setting. You can select:
- **Sound Mode**—Selects the EQ sound mode. You can select **Standard**, **News**, **Music**, **Movie**, or **Custom**.

  *Note: You can also press **AUDIO** to select the audio mode.*

- **Surround**–Provides the ultimate home theater sound solution.
- **Treble**—Adjusts the high sounds.
- **Bass**—Adjusts the low sounds.
- **Balance**—Adjusts the balance between the left and right audio channels.

- **Auto Volume**—Adjusts the volume to keep the volume level consistent when switching channels or when switching from a TV show to a commercial. You can select **On** or **Off**.
- **Digital Audio/SPDIF**—Selects the preferred audio format for digital audio signals. Options include **PCM** (to output the audio in 2-channel stereo), or **RAW** (to pass through the original digital audio sound).
- **Audio Language**—Selects the default language track when watching digital TV programs. Options include **English**, **Français** (French), and **Español** (Spanish).
- **MTS/SAP**—Selects the default language stream when watching analog TV. You can select:
  - **MONO**–if there is noise or static on weak stereo broadcasts.
  - **STEREO**–for programs broadcast in stereo.
  - **SAP**–to listen to a secondary audio program (if available).

  *Note: You can also press **MTS/SAP** on the remote control one or more times to select the audio mode.*

- **Reset Audio Settings**— Resets all audio settings to factory defaults.

4 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Playing TV audio only

You can turn off the picture on your TV and listen to the program audio only.

To play TV audio only:

1 Press **MENU**. The on-screen menu opens with the *Picture* menu displayed.
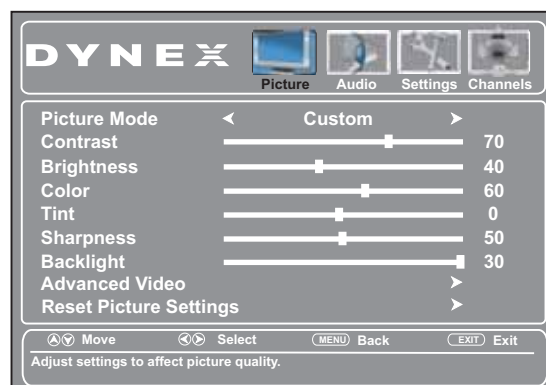
2 Press ◄ or ► to highlight **Channels**, then press ▼. The *Channels* menu opens.
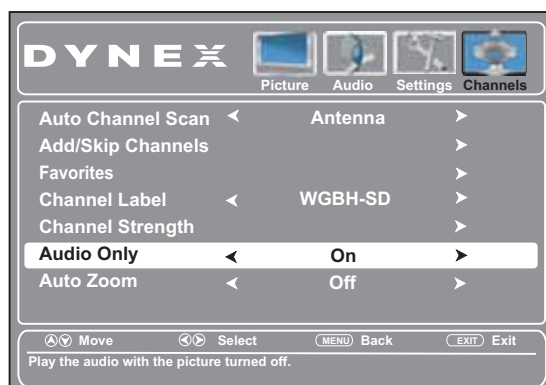
3 Press ▲ or ▼ to highlight **Audio Only**, then press ◄ or ► to select **On**.

4   Press **EXIT** to close the menu. After pressing **EXIT**, the picture turns off in approximately 5 to 10 seconds.

> *Notes:*
> - *Audio only works only when the input source is TV and your TV is receiving a broadcast signal.*
> - *To exit audio only mode, press any button. When you exit audio only mode, the **Audio Only** option is automatically reset to **Off**.*

Changing channel settings

Automatically scanning for channels

When you scan for channels, your TV searches for channels available in your viewing area and stores the channel information in the channel list. When you press **CH+** or **CH–**, your TV goes to the next or previous channel in the channel list and skips any channels that were not stored in the list.

If the TV signal source changes, for example you change from an outdoor antenna to cable TV (no box), you need to scan for channels again.

> *Note: You do not need to scan for channels unless the available channels changed after you ran the Setup Wizard. For more information, see <u>"Turning on your TV for the first time"</u> on page 14.*

To automatically scan for channels:

1   Press **MENU**. The on-screen menu opens with the *Picture* menu displayed.
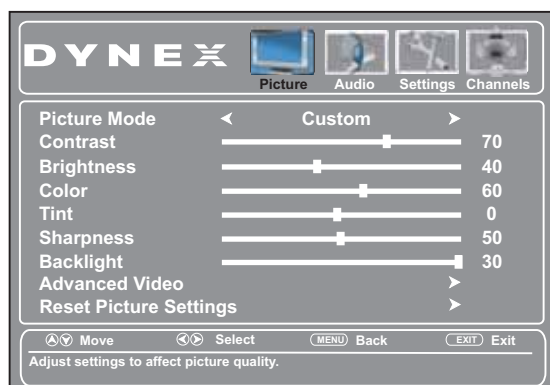
2   Press ◄ or ► to highlight **Channels**, then press ▼. The *Channels* menu opens with **Auto Channel Scan** highlighted.
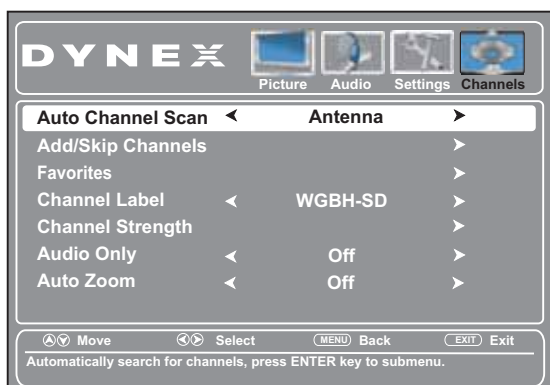
3   Press ◄ or ► to select your signal type. You can select:
   - **Antenna**—Select this option if you use an antenna. Your TV scans for analog (VHF and UHF) and digital channels in your area.

   - **Cable**—Select this option if you have cable TV and do not have a cable TV box. Your TV scans for analog and digital channels in your area.
   - **Cable/Satellite Box**—Select this option if you use a cable or satellite TV box. Your TV will not scan for channels because the cable or satellite TV box provides the channel information.

4   Press **ENTER** to start the auto channel scan.
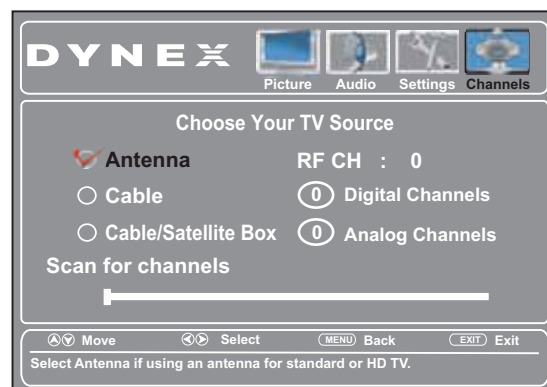
If you selected **Antenna** or **Cable**, your TV searches automatically for available channels in your area and stores the channel information in the channel list. This may take several minutes. While scanning, the TV displays a progress report.

- Or-

If you selected **Cable/Satellite Box**, the channel search is not necessary.

> *Note: You can press **EXIT** at any time to stop scanning, but you will need to run the scan later to complete the process.*

Hiding channels

You can hide channels in the channel list. When you press **CH+** or **CH–**, your TV skips the hidden channels. You can still tune to a hidden channel by pressing the number buttons for the channel.

To hide channels:

1   Press **MENU**. The on-screen menu opens with the *Picture* menu displayed.
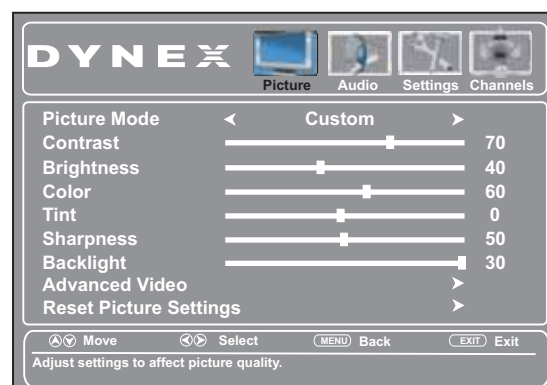
2 Press ◄ or ► to highlight **Channels**, then press ▼. The *Channels* menu opens.

```
DYNEX                    Picture  Audio  Settings  Channels

Auto Channel Scan    ◄      Antenna        ►
Add/Skip Channels                          ►
Favorites                                  ►
Channel Label        ◄      WGBH-SD        ►
Channel Strength                           ►
Audio Only           ◄      On             ►
Auto Zoom            ◄      Off            ►

 (▲)(▼) Move    (◄)(►) Select   (MENU) Back   (EXIT) Exit
Manually add and skip channels in your program list.
```
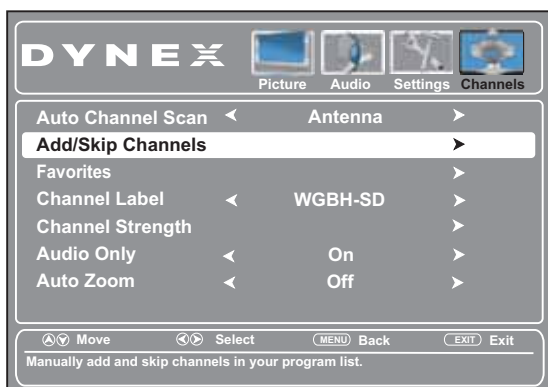
3 Press ▲ or ▼ to highlight **Add/Skip Channels**, then press **ENTER**. The channel list opens.

```
DYNEX                    Picture  Audio  Settings  Channels

Channel No.      Channel Name        Show
  1.2            Sencore              ✓
  2.0
  2.1            WGBH-SD
  2.2            PBS-HD               ✓
  2.10           WGBH-Dx
  6.0                                 ✓
  7.0
  11.1           MBC DTV              ✓
  12.0
  14.0                                ✓

 (▲)(▼) Move    (◄)(►) Select   (MENU) Back   (EXIT) Exit
Manually add and skip channels in your program list.
```

4 Press ▲ or ▼ to highlight the channel you want to hide, then press **ENTER**. The check mark disappears.

Notes:

- *A channel with a check mark is not hidden. A channel with no check mark is hidden.*
- *If the list has more than one page, press ▲ or ▼ to scroll through the pages.*

5 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Setting up a favorite channel list

You can create a favorite channel list to make it easier to tune to your favorite channels.

To set up a favorite channel list:

1 Press **MENU**. The on-screen menu opens with the *Picture* menu displayed.

```
DYNEX                    Picture  Audio  Settings  Channels

Picture Mode         ◄      Custom         ►
Contrast             ─────────●───────      70
Brightness           ───●───────────────    40
Color                ──────●────────────    60
Tint                 ─────────●──────────    0
Sharpness            ───────●───────────    50
Backlight            ──────────────●──      30
Advanced Video                             ►
Reset Picture Settings                     ►

 (▲)(▼) Move    (◄)(►) Select   (MENU) Back   (EXIT) Exit
Adjust settings to affect picture quality.
```

2 Press ◄ or ► to highlight **Channels**, then press ▼. The *Channels* menu opens.

```
DYNEX                    Picture  Audio  Settings  Channels

Auto Channel Scan    ◄      Antenna        ►
Add/Skip Channels                          ►
Favorites                                  ►
Channel Label        ◄      WGBH-SD        ►
Channel Strength                           ►
Audio Only           ◄      Off            ►
Auto Zoom            ◄      Off            ►

 (▲)(▼) Move    (◄)(►) Select   (MENU) Back   (EXIT) Exit
Add channels to create a favorite list.
```

3 Press ▲ or ▼ to highlight **Favorites**, then press **ENTER**. The *Channels-favorites* list opens.

```
DYNEX                    Picture  Audio  Settings  Channels

Channel No.      Channel Name        Favorites
  1.2            Sencore              ✓
  2.0
  2.1            WGBH-SD
  2.2            PBS-HD
  2.10           WGBH-Dx
  6.0                                 ✓
  7.0
  11.1           MBC DTV              ✓
  12.0
  14.0                                ✓

 (▲)(▼) Move    (◄)(►) Select   (MENU) Back   (EXIT) Exit
Add channels to create a favorite list.
```

4 Press ▲ or ▼ to highlight the channel you want to add to the favorites list, then press **ENTER**. A check mark appears.

Notes:

- *To remove a channel from the favorites list, highlight the channel, then press **ENTER**. The check mark disappears and the channel is removed from the list.*
- *If the list has more than one page, press ▲ or ▼ to scroll through the pages.*

5 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Viewing a favorite channel

To view a favorite channel:

1 Press **FAVORITE** on your remote control. The *Favorites* channel list opens.

2 Press ▲ or ▼ to highlight a channel, then press **ENTER** to tune to the channel.

Adding or changing a channel label

If a channel is not already labeled, you can label the channel to make it easier to identify. You can also relabel a channel that is already labeled.

To add or change a channel label:

1 Press **MENU**. The on-screen menu opens with the *Picture* menu displayed.
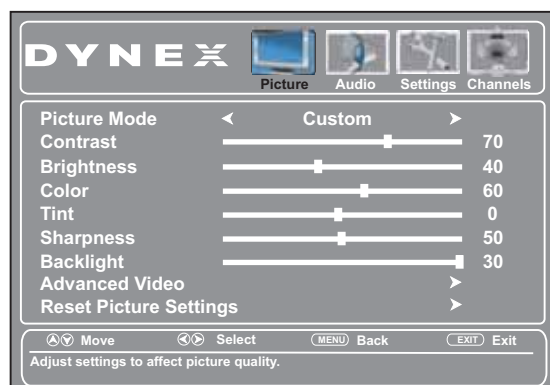
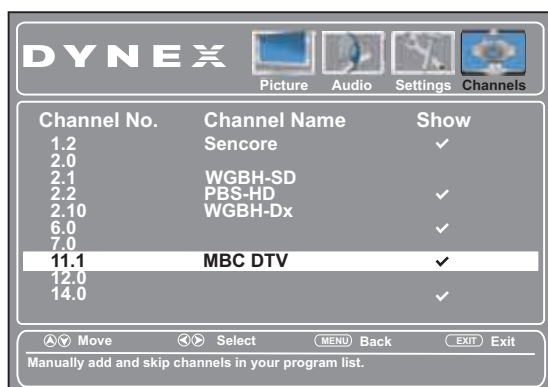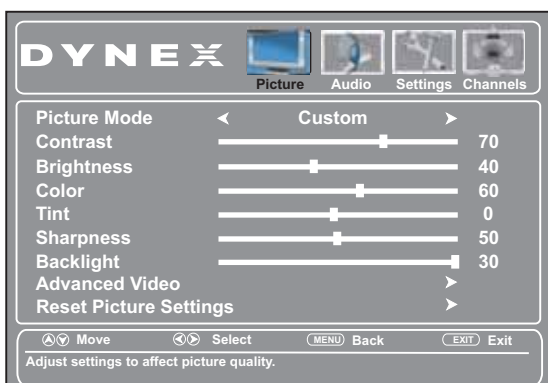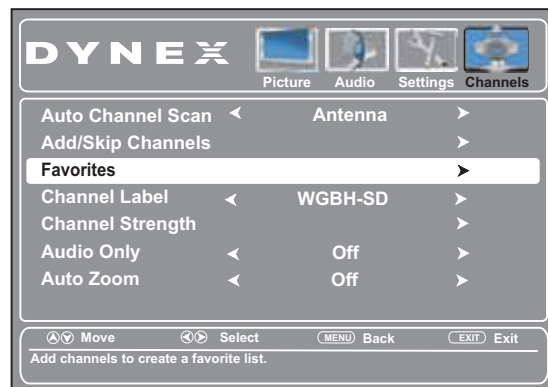2 Press ◄ or ► to highlight **Channels**, then press ▼. The *Channels* menu opens.
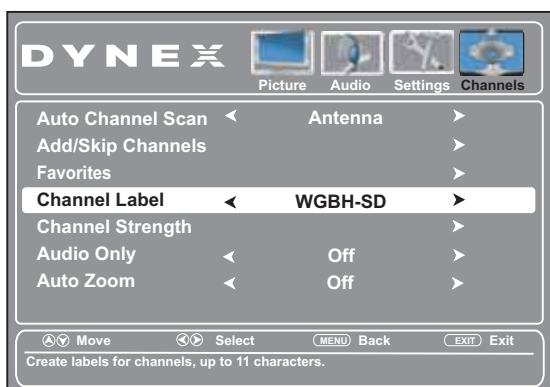
3 Press ▲ or ▼ to highlight **Channel Label**, then press **ENTER**. The *Channel Label* screen opens with the channel number field highlighted.

4 Press ▲ or ▼ to select the channel you want to label, then press ► to go to the channel label editing field.
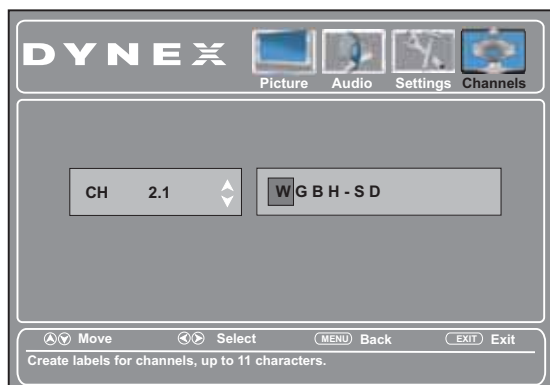
5 Press ▲ or ▼ to select a character, then press ◄ or ► to move to the previous or next position. Repeat this step to add more characters. You can enter as many as 11 characters.

6 When you have completed the label, press **ENTER**.

7 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Checking the digital signal strength

You can check the digital signal strength to determine if you need to adjust your antenna or digital cable input. The higher the signal strength, the less likely you are to experience picture degradation.

To check the digital signal strength:
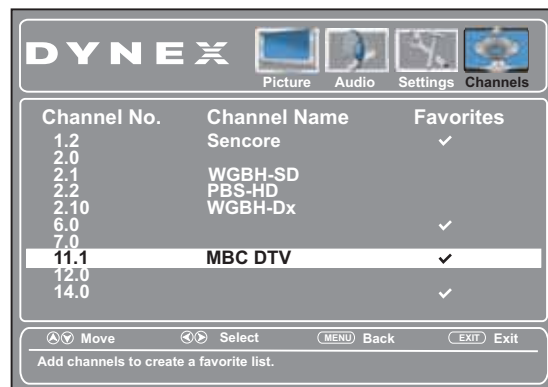
1 Press **MENU**. The on-screen menu opens with the *Picture* menu displayed.
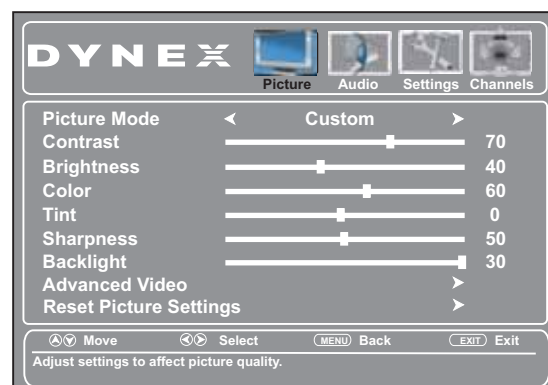
2 Press ◄ or ► to highlight **Channels**, then press ▼. The *Channels* menu opens.
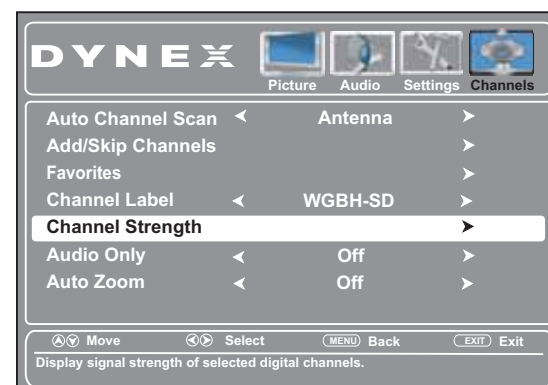
3 Press ▲ or ▼ to highlight **Channel Strength**, then press **ENTER**. The DTV signal strength is indicated by the color bar.

4 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Setting parental controls

Parental controls let you prevent your children from watching inappropriate material on TV. When set, parental controls read the rating of the program (with some exceptions, such as news and sports) and deny access to programs that exceed the ratings level you select. To watch programs that exceed the selected rating, you must enter the password.

Setting or changing the password

To set or change the password:

1 Press **MENU**. The on-screen menu opens with the *Picture* menu displayed.
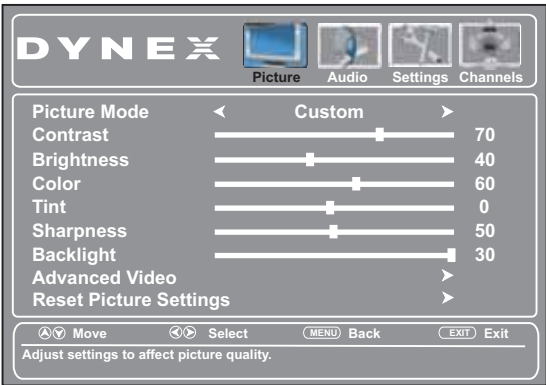
2 Press ◄ or ► to highlight **Settings**, then press ▼. The *Settings* menu opens with **Parental Controls** highlighted.

3 Press **ENTER**. The *Enter Password* screen opens.
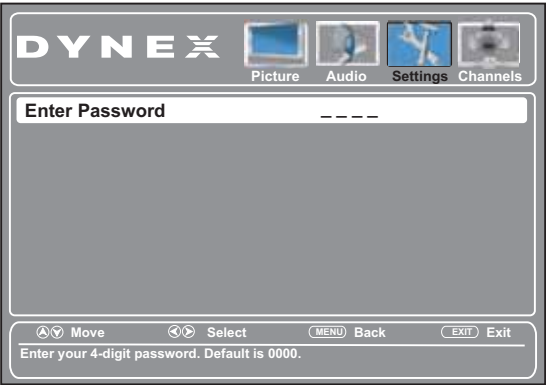
4 Press the number buttons to enter the four-digit password. The default password is **0000**. You should change the password to something you can remember. The *Parental Controls* menu opens.
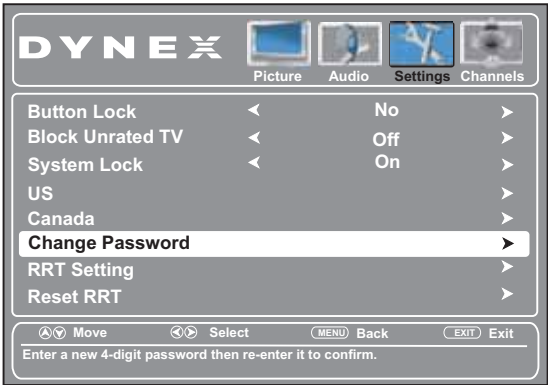
5 Press ▲ or ▼ to highlight **Change Password**, then press **ENTER**. The *Password Entry* screen opens.

6 Press the number buttons to enter the old password, then enter a new password. On the next line, enter the new password again to confirm it. The *Parental Controls* menu opens again.

*Note: If you forget your password, enter **9999**.*

7 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Setting parental control levels

You can set parental control levels for the U.S. and Canada. The following procedure shows how to set controls for U.S. TV and movie ratings. You use similar steps for controlling Canadian TV ratings. Parental control settings are only applicable to programs that have a rating signal. If you prefer to block programs that have no rating signal, see "Blocking unrated TV" on page 25.

To set parental control levels:

1 Press **MENU**. The on-screen menu opens with the *Picture* menu displayed.
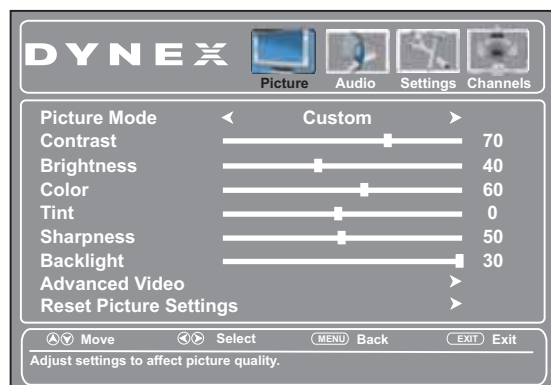
2 Press ◄ or ► to highlight **Settings**, then press ▼. The *Settings* menu opens with **Parental Controls** highlighted.

3 Press **ENTER**. The *Enter Password* screen opens.
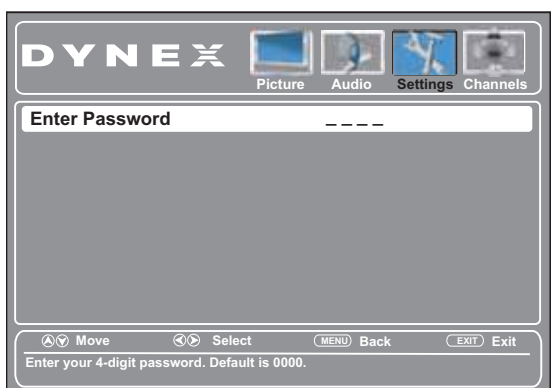
4 Press the number buttons to enter the four-digit password. The *Parental Controls* menu opens.
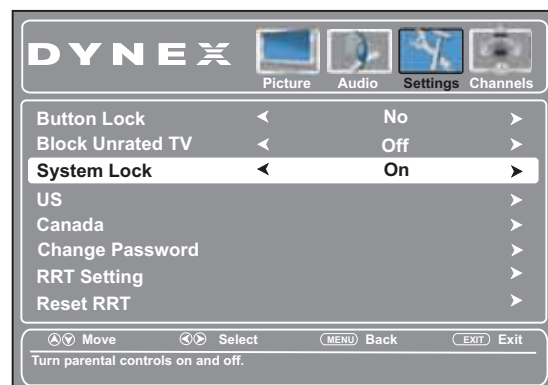
5 Press ▲ or ▼ to highlight **System Lock,** then press ◄ or ► to select **On** (To enable System Lock), or **Off** (to disable System Lock).

Note: *If you want to set the US and Canada items, you must set it to **On**.*
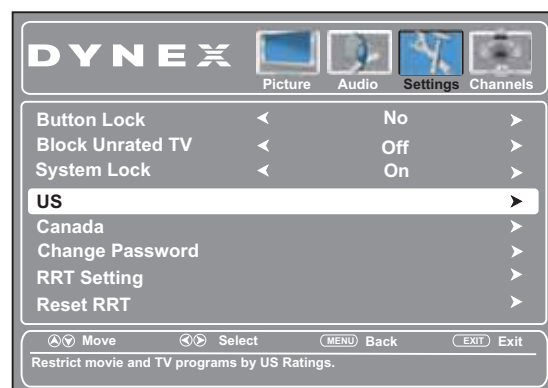
6 Press ▲ or ▼ to highlight **US** (or **Canada** to set controls for Canada)**,** then press **ENTER**. The *Ratings* screen opens.
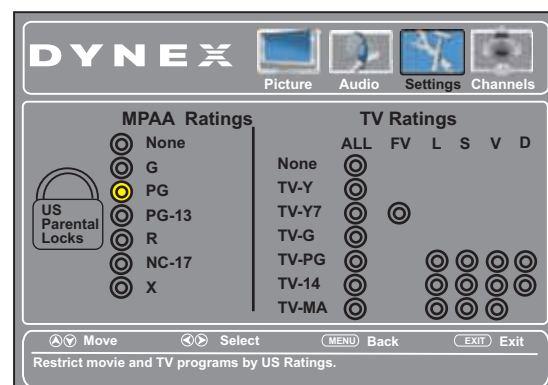
7 Press ◄ or ► to highlight **MPAA Ratings** (or **Canadian English**), then press ▲ or ▼ to highlight the rating you want to block, then press **ENTER**.

-OR-

Press ◄ or ► to highlight **TV Ratings** (or **Canadian French**), then press ▲ or ▼, ◄ or ► to highlight the rating you want to block, then press **ENTER**. That rating and all other higher ratings are blocked. Lock icons appear next to all locked ratings.

8 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Ratings

U.S. TV ratings (age-based)	
None	Not rated
TV-Y	All children
TV-Y7	Children over seven years of age
TV-G	General audiences
TV-PG	Parental guidance suggested
TV-14	Parents strongly cautioned
TV-MA	Mature audiences only

U.S. TV ratings (content-based)	
All	All ratings are blocked
FV	Fantasy violence
L	Adult language
S	Sexual situations
V	Violence
D	Sexually suggestive dialog

U.S. movie (MPAA) ratings	
None	Movie not rated
G	General audiences
PG	Parental guidance suggested
PG-13	Suitable for children 13 and older
R	Parental guidance suggested for children under 17
NC-17	Not suitable for children under 17
X	Adults only

Canadian English ratings	
E	Exempt programming
C	Children
C8+	Children over 8 years old
G	General audiences
PG	Parental guidance
14+	Over 14 years old
18+	Adult programming

Canadian French ratings	
E	Exempt programming
G	General audiences
8 ans+	Over 8 years old
13 ans+	Over 13 years old
16 ans+	Over 16 years old
18 ans+	Adult programming

Blocking unrated TV

Not all TV programs have a rating signal. You can block all unrated programs from displaying on your TV.

To block unrated TV:

1   Press **MENU**. The on-screen menu opens with the *Picture* menu displayed.
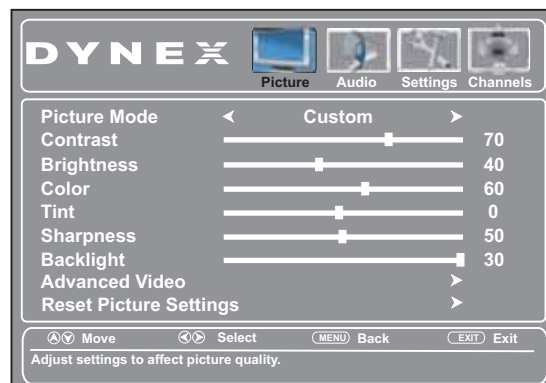
2   Press ◄ or ► to highlight **Settings**, then press ▼. The *Settings* menu opens with **Parental Controls** highlighted.

3   Press **ENTER**. The *Enter Password* screen opens.

4   Press the number buttons to enter the four-digit password. The *Parental Controls* menu opens.

5 Press ▲ or ▼ to highlight **System Lock**, then press ◄ or ► to select **On**.

```
D Y N E X
                    Picture    Audio    Settings   Channels

  Button Lock          ◄          No              ►
  Block Unrated TV     ◄          Off             ►
  System Lock          ◄          On              ►
  US                                              ►
  Canada                                          ►
  Change Password                                 ►
  RRT Setting                                     ►
  Reset RRT                                       ►

  ⓐⓥ Move        ◄► Select      MENU Back      EXIT Exit
  Block TV programs that do not have a rating.
```
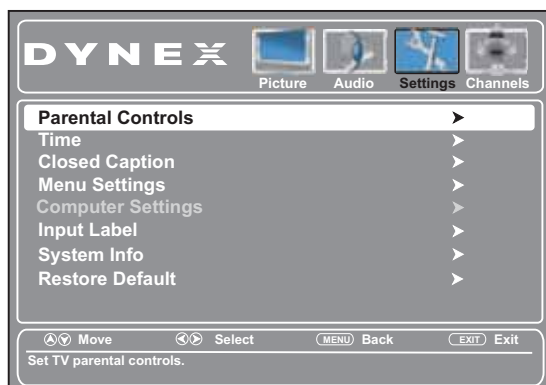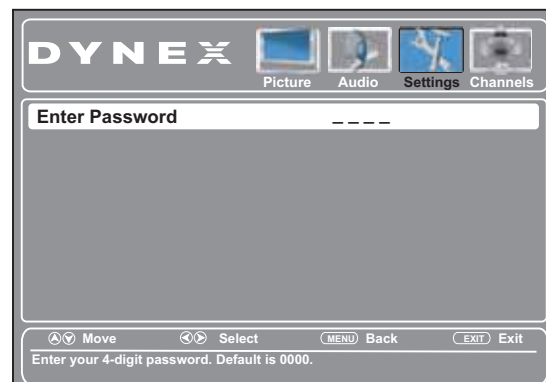
6 Press ▲ or ▼ to highlight **Block Unrated TV**, then press ◄ or ► to select **On** (to block unrated TV), or **Off** (to unblock unrated TV).

7 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Locking control buttons

You can lock the TV control buttons on the side of your TV. When the control buttons on your TV are locked, you can only operate the TV with the remote control.

To lock control buttons:

1 Press **MENU**. The on-screen menu opens with the *Picture* menu displayed.
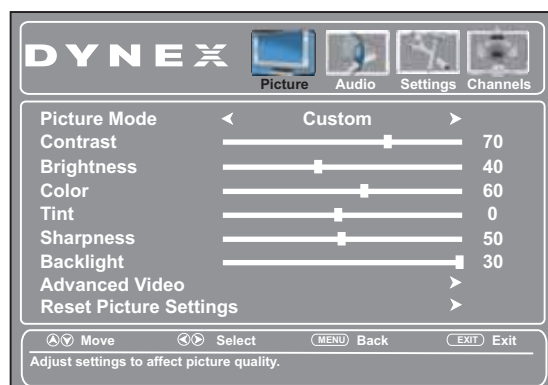
```
D Y N E X
                    Picture    Audio    Settings   Channels

  Picture Mode         ◄        Custom            ►
  Contrast         ▬▬▬▬▬▬●▬▬▬▬      70
  Brightness       ▬▬▬●▬▬▬▬▬▬▬      40
  Color            ▬▬▬▬▬●▬▬▬▬▬      60
  Tint             ▬▬▬●▬▬▬▬▬▬▬       0
  Sharpness        ▬▬▬●▬▬▬▬▬▬▬      50
  Backlight        ▬▬▬▬▬▬▬▬▬●▬      30
  Advanced Video                          ►
  Reset Picture Settings                  ►

  ⓐⓥ Move        ◄► Select      MENU Back      EXIT Exit
  Adjust settings to affect picture quality.
```

2 Press ◄ or ► to highlight **Settings**, then press ▼. The *Settings* menu opens with **Parental Controls** highlighted.

```
D Y N E X
                    Picture    Audio    Settings   Channels

  Parental Controls                               ►
  Time                                            ►
  Closed Caption                                  ►
  Menu Settings                                   ►
  Computer Settings                               ►
  Input Label                                     ►
  System Info                                     ►
  Restore Default                                 ►

  ⓐⓥ Move        ◄► Select      MENU Back      EXIT Exit
  Set TV parental controls.
```

3 Press **ENTER**. The *Enter Password* screen opens.

```
D Y N E X
                    Picture    Audio    Settings   Channels

  Enter Password              _ _ _ _




  ⓐⓥ Move        ◄► Select      MENU Back      EXIT Exit
  Enter your 4-digit password. Default is 0000.
```
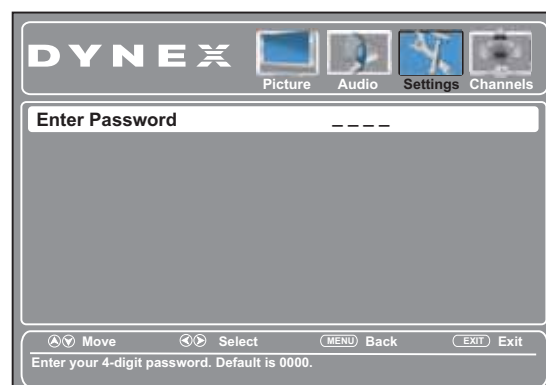
4 Press the number buttons to enter the four-digit password. The *Parental Controls* menu opens with **Button Lock** highlighted.

```
D Y N E X
                    Picture    Audio    Settings   Channels

  Button Lock          ◄          No              ►
  Block Unrated TV     ◄          Off             ►
  System Lock          ◄          On              ►
  US                                              ►
  Canada                                          ►
  Change Password                                 ►
  RRT Setting                                     ►
  Reset RRT                                       ►

  ⓐⓥ Move        ◄► Select      MENU Back      EXIT Exit
  Lock or unlock the buttons on the TV.
```

5 Press ◄ or ► to select **Yes** (to lock the buttons), or **No** (to unlock the buttons).

6 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Downloading rating information

To download rating information:

1 Press **MENU**. The on-screen menu opens with the *Picture* menu displayed.

```
D Y N E X
                    Picture    Audio    Settings   Channels

  Picture Mode         ◄        Custom            ►
  Contrast         ▬▬▬▬▬▬●▬▬▬▬      70
  Brightness       ▬▬▬●▬▬▬▬▬▬▬      40
  Color            ▬▬▬▬▬●▬▬▬▬▬      60
  Tint             ▬▬▬●▬▬▬▬▬▬▬       0
  Sharpness        ▬▬▬●▬▬▬▬▬▬▬      50
  Backlight        ▬▬▬▬▬▬▬▬▬●▬      30
  Advanced Video                          ►
  Reset Picture Settings                  ►

  ⓐⓥ Move        ◄► Select      MENU Back      EXIT Exit
  Adjust settings to affect picture quality.
```

2 Press ◄ or ► to highlight **Settings**, then press ▼. The *Settings* menu opens with **Parental Controls** highlighted.

DYNEX
Picture   Audio   Settings   Channels

Parental Controls ➤
Time ➤
Closed Caption ➤
Menu Settings ➤
Computer Settings ➤
Input Label ➤
System Info ➤
Restore Default ➤

Move   Select   MENU Back   EXIT Exit
Set TV parental controls.

3 Press **ENTER**. The *Enter Password* screen opens.

DYNEX
Picture   Audio   Settings   Channels

Enter Password _ _ _ _

Move   Select   MENU Back   EXIT Exit
Enter your 4-digit password. Default is 0000.

4 Press the number buttons to enter the four-digit password. The *Parental Controls* menu opens.

DYNEX
Picture   Audio   Settings   Channels

Button Lock ◄ No ➤
Block Unrated TV ◄ Off ➤
System Lock ◄ On ➤
US ➤
Canada ➤
Change Password ➤
RRT Setting ➤
Reset RRT ➤

Move   Select   MENU Back   EXIT Exit
Turn parental controls on or off.

5 Press ▲ or ▼ to highlight **System Lock**, then press ◄ or ► to select **On**.

DYNEX
Picture   Audio   Settings   Channels

Button Lock ◄ No ➤
Block Unrated TV ◄ Off ➤
System Lock ◄ On ➤
US ➤
Canada ➤
Change Password ➤
RRT Setting ➤
Reset RRT ➤

Move   Select   MENU Back   EXIT Exit
Display an advanced V-Chip ratings table for digital channels.

6 Press ▲ or ▼ to highlight **RRT Setting**, then press **ENTER**. If the program is broadcast with RRT5 rating information, the information is downloaded automatically and can be used for parental controls.

Note: *If you want to clear the downloaded rating information, select* ***Reset RRT***. *The rating information is cleared. If rating information is broadcast by another program, your TV downloads the new rating information.*

7 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Using closed captioning

Closed captions (CC or subtitles) are intended to provide people who are hearing impaired with access to TV programs. However, this feature is also useful for viewers who are learning a new language, beginning to read, or in a noisy environment. Text captions are displayed to transcribe speech and often other relevant sounds.

Closed captioning availability and content depends on the broadcaster and may vary across programs in a channel.

Turning closed captioning on or off

To turn closed captioning on or off:

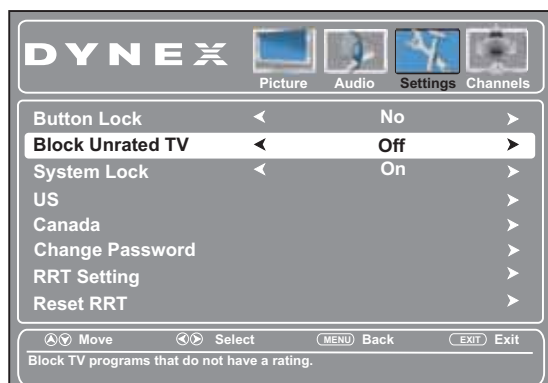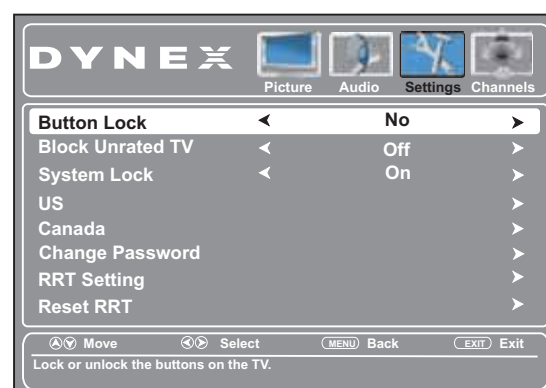**1** Press **MENU**. The on-screen menu opens with the *Picture* menu displayed.

DYNEX
Picture   Audio   Settings   Channels

Picture Mode ◄ Custom ►
Contrast 70
Brightness 40
Color 60
Tint 0
Sharpness 50
Backlight 30
Advanced Video ➤
Reset Picture Settings ➤

Move   Select   MENU Back   EXIT Exit
Adjust settings to affect picture quality.

2 Press ◄ or ► to highlight **Settings**, then press ▼. The *Settings* menu opens.

DYNEX
Picture   Audio   Settings   Channels

Parental Controls ➤
Time ➤
Closed Caption ➤
Menu Settings ➤
Computer Settings ➤
Input Label ➤
System Info ➤
Restore Default ➤

Move   Select   MENU Back   EXIT Exit
Adjust Closed Captioning settings.

3 Press ▲ or ▼ to highlight **Closed Caption**, then press **ENTER**. The *Settings-Closed Caption* menu opens with **CC Mode** highlighted.

```
D Y N E X       [Picture] [Audio] [Settings] [Channels]
                  Picture  Audio  Settings  Channels

CC Mode          ◄         On              ►
Analog Caption   ◄         CC1             ►
Digital Caption  ◄         CS1             ►
Digital CC Settings                        ►


   (A)(V) Move    (◄)(►) Select   (MENU) Back   (EXIT) Exit
   Adjust Closed Captioning settings.
```

4 Press ◄ or ► to select **On** (turns closed captioning on), **CC On Mute** (turns closed captioning on when the sound is muted), or **Off** (turns closed captioning off).

5 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Note: *You can also press **CCD** to turn closed captioning on or off.*

Selecting the closed captioning mode

To select the closed captioning mode:

1 Press **MENU**. The on-screen menu opens with the *Picture* menu displayed.

```
D Y N E X       [Picture] [Audio] [Settings] [Channels]
                  Picture  Audio  Settings  Channels

Picture Mode     ◄         Custom          ►
Contrast         ──────────────●────────  70
Brightness       ──────●──────────────    40
Color            ───────────●──────────   60
Tint             ──────────●───────────    0
Sharpness        ──────────●───────────   50
Backlight        ────────────────────●─   30
Advanced Video                             ►
Reset Picture Settings                     ►
   (A)(V) Move    (◄)(►) Select   (MENU) Back   (EXIT) Exit
   Adjust settings to affect picture quality.
```

2 Press ◄ or ► to highlight **Settings**, then press ▼. The *Settings* menu opens.

```
D Y N E X       [Picture] [Audio] [Settings] [Channels]
                  Picture  Audio  Settings  Channels

Parental Controls                          ►
Time                                       ►
Closed Caption                             ►
Menu Settings                              ►
Computer Settings                          ►
Input Label                                ►
System Info                                ►
Restore Default                            ►


   (A)(V) Move    (◄)(►) Select   (MENU) Back   (EXIT) Exit
   Adjust Closed Captioning settings.
```

3 Press ▲ or ▼ to highlight **Closed Caption**, then press **ENTER**. The *Settings-Closed Caption* menu opens with **CC Mode** highlighted.

```
D Y N E X       [Picture] [Audio] [Settings] [Channels]
                  Picture  Audio  Settings  Channels

CC Mode          ◄         On              ►
Analog Caption   ◄         CC1             ►
Digital Caption  ◄         CS1             ►
Digital CC Settings                        ►


   (A)(V) Move    (◄)(►) Select   (MENU) Back   (EXIT) Exit
   Set Closed Caption for standard (analog) programs.
```
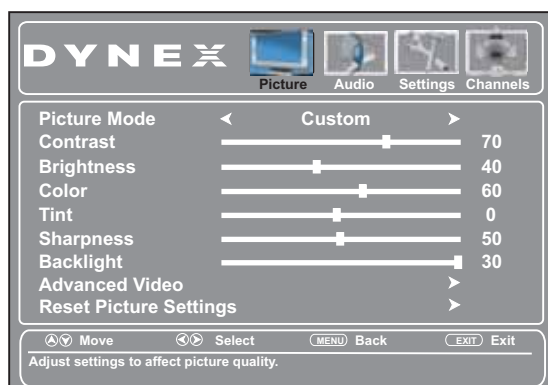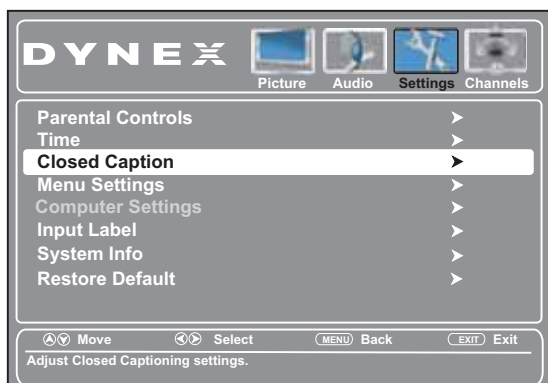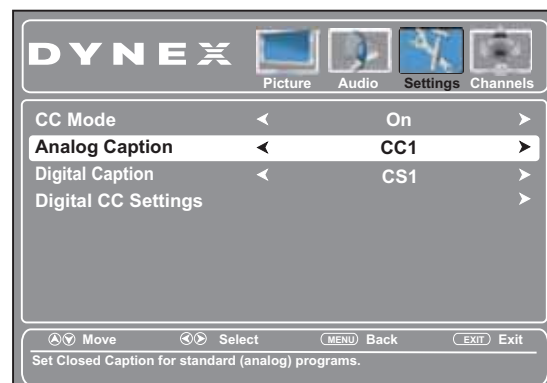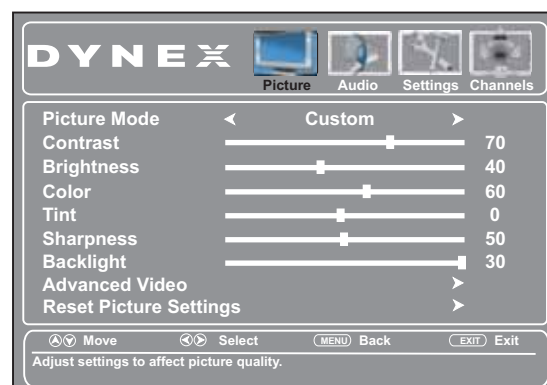
4 Press ▲ or ▼ to highlight **Analog Caption**, then press ◄ or ► to select an analog caption setting. You can select:
   - **CC1** through **CC4**—Closed captioning appears in a small banner across the bottom of the screen. **CC1** is usually the *printed* version of the audio. **CC2** through **CC4** display content provided by the broadcaster.
   - **Text1** through **Text4**—Closed captioning that covers half or all of the screen. **Text1** through **Text4** display content provided by the broadcaster.

5 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Customizing digital closed captioning styles

To customize digital closed captioning styles:

1 Press **MENU**. The on-screen menu opens with the *Picture* menu displayed.

```
D Y N E X       [Picture] [Audio] [Settings] [Channels]
                  Picture  Audio  Settings  Channels

Picture Mode     ◄         Custom          ►
Contrast         ──────────────●────────  70
Brightness       ──────●──────────────    40
Color            ───────────●──────────   60
Tint             ──────────●───────────    0
Sharpness        ──────────●───────────   50
Backlight        ────────────────────●─   30
Advanced Video                             ►
Reset Picture Settings                     ►
   (A)(V) Move    (◄)(►) Select   (MENU) Back   (EXIT) Exit
   Adjust settings to affect picture quality.
```

2 Press ◄ or ► to highlight **Settings**, then press ▼. The *Settings* menu opens.

DYNEX
Picture   Audio   Settings   Channels

Parental Controls	►
Time	►
Closed Caption	►
Menu Settings	►
Computer Settings	►
Input Label	►
System Info	►
Restore Default	►

Move   Select   (MENU) Back   (EXIT) Exit
Adjust Closed Captioning settings.

3 Press ▲ or ▼ to highlight **Closed Caption**, then press **ENTER**. The *Settings-Closed Caption* menu opens with **CC Mode** highlighted.

DYNEX
Picture   Audio   Settings   Channels

CC Mode	◄	On	►
Analog Caption	◄	CC1	►
Digital Caption	◄	CS1	►
Digital CC Settings			►

Move   Select   (MENU) Back   (EXIT) Exit
Set Closed Caption for digital programs.

4 Press ▲ or ▼ to highlight **Digital Caption** (only available for digital stations), then press ◄ or ► to select a digital caption setting. You can select **CC1** through **CC4** and **CS1** through **CS6**.

5 Press ▲ or ▼ to highlight **Digital CC Settings**, then press **ENTER**. The *Digital CC Settings* menu opens with **Mode** highlighted.

DYNEX
Picture   Audio   Settings   Channels

Mode	◄	Default	►
Font Style		Default	
Font Size		Default	
Font Edge Style		Default	
Font Edge Color		Default	
Font Color		Default	
Background Color		Default	
Font Opacity		Default	
Background Opacity		Default	

Move   Select   (MENU) Back   (EXIT) Exit
Set the look of digital CC. Automatic uses broadcaster's style.
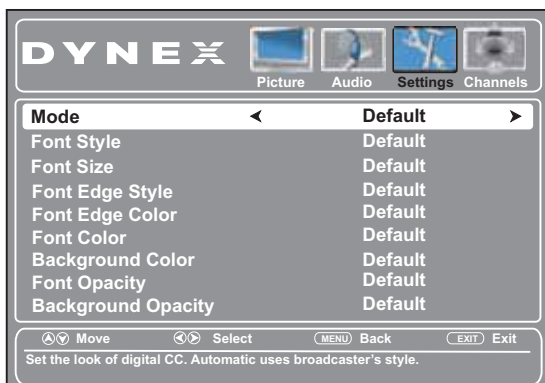
6 Press ◄ or ► to select **Custom**.

> *Note*: *To reset the closed caption styles to their defaults, set* **Mode** *to* **Default**.

7 Press ▲ or ▼ to highlight a style, then press ◄ or ► to adjust the style. You can select:

- **Font Style**–Selects the font style.
- **Font Size**–Selects the font size.
- **Font Edge Style**–Selects the edge style for the words.

- **Font Edge Color**–Selects the color for the edges.
- **Font Color**–Selects the color for the text.
- **Background Color**–Selects the color for the background.
- **Font Opacity**–Selects the opacity for the text.
- **Background Opacity**–Selects the opacity for the background.

8 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Adjusting time settings

Setting the clock

To set the clock:

1 Press **MENU**. The on-screen menu opens with the *Picture* menu displayed.

DYNEX
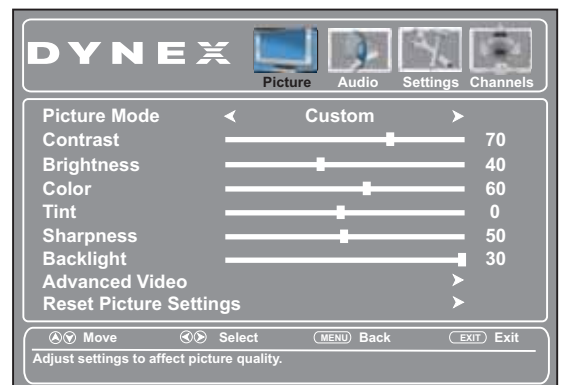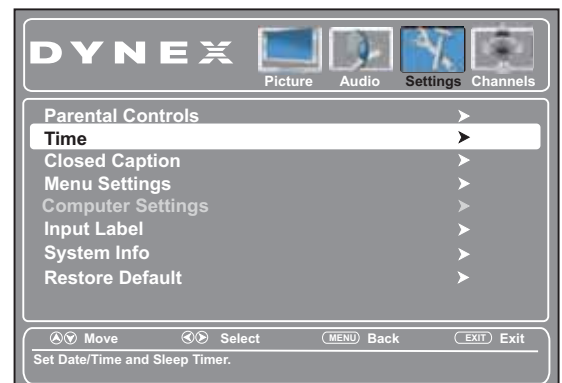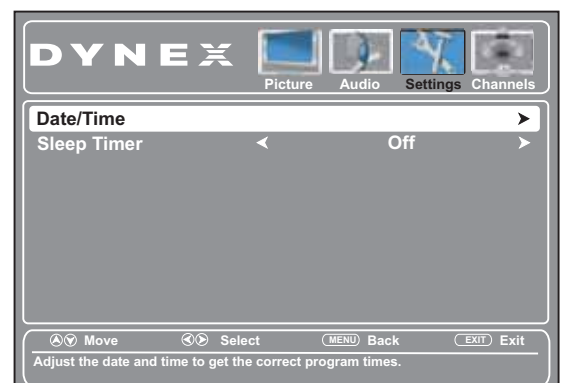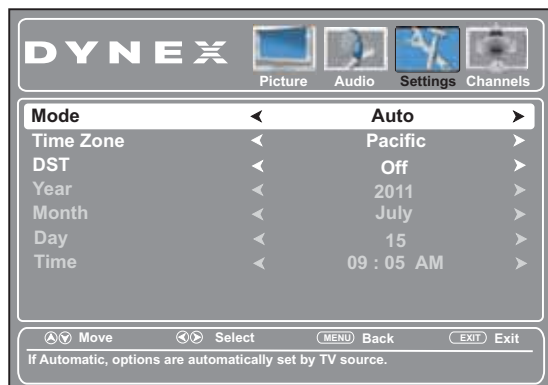Picture   Audio   Settings   Channels

Picture Mode	◄	Custom	►
Contrast			70
Brightness			40
Color			60
Tint			0
Sharpness			50
Backlight			30
Advanced Video			►
Reset Picture Settings			►

Move   Select   (MENU) Back   (EXIT) Exit
Adjust settings to affect picture quality.

2 Press ◄ or ► to highlight **Settings**, then press ▼. The *Settings* menu opens.

DYNEX
Picture   Audio   Settings   Channels

Parental Controls	►
Time	►
Closed Caption	►
Menu Settings	►
Computer Settings	►
Input Label	►
System Info	►
Restore Default	►

Move   Select   (MENU) Back   (EXIT) Exit
Set Date/Time and Sleep Timer.

3 Press ▲ or ▼ to highlight **Time**, then press **ENTER**. The *Settings-Time* menu opens with **Date/Time** highlighted.

DYNEX
Picture   Audio   Settings   Channels

Date/Time			►
Sleep Timer	◄	Off	►

Move   Select   (MENU) Back   (EXIT) Exit
Adjust the date and time to get the correct program times.

4   Press **ENTER**, the *Settings-Date/Time* menu opens.

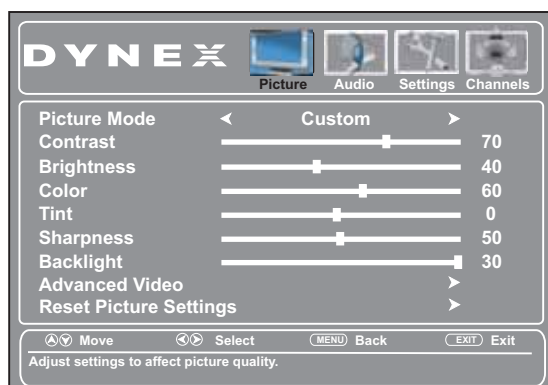**5**   Press ▲ or ▼ to highlight **Mode**, then press ◄ or ► to select **Manual** (to set the date and time manually), or **Auto** (to have the date and time set automatically from a TV signal source, based on your time zone).

6   Press ▲ or ▼ to highlight **Time Zone**, then press ◄ or ► to select your time zone. You can select **Pacific, Alaska, Hawaii, Newfoundland, Atlantic, Eastern, Central,** or **Mountain.**

7   If your viewing area observes daylight savings time, press ▲ or ▼ to highlight **DST**, then press ◄ or ► to select **On**.

8   If you selected **Manual** for **Mode**:
   • Press ▲ or ▼ to highlight **Year, Month,** or **Day**, then press ◄ or ► to adjust the setting.
   • Press ▲ or ▼ to highlight **Time**, press ◄ or ► to highlight the hour, minute, or AM/PM field, then press ▲ or ▼ to adjust the setting.

9   Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.
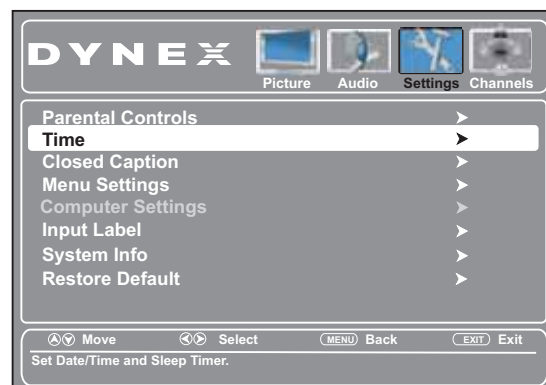
Setting the sleep timer

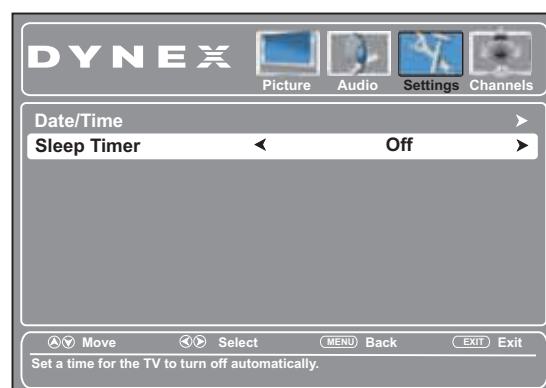You can set the amount of time before your TV automatically turns off.
To set the sleep timer:
1   Press **MENU**. The on-screen menu opens with the *Picture* menu displayed.

2   Press ◄ or ► to highlight **Settings**, then press ▼. The *Settings* menu opens.

3   Press ▲ or ▼ to highlight **Time**, then press ► or **ENTER**. The *Settings-Time* menu opens.

4   Press ▲ or ▼ to highlight **Sleep Timer**, then press ◄ or ► to select the amount of time before your TV turns off automatically. To turn the sleep timer off, select **Off.**

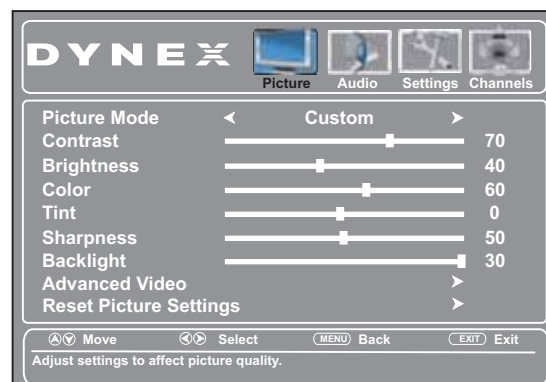**5**   Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

*Note: You can also press **SLEEP** to set the sleep timer.*
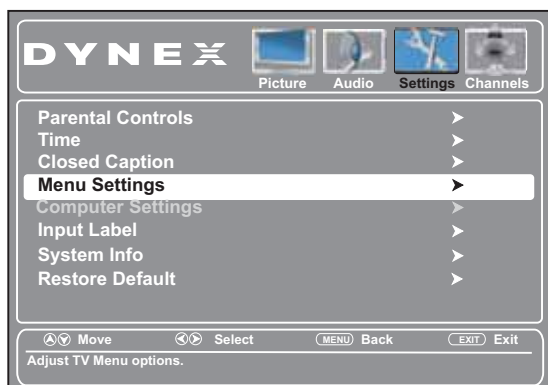
Adjusting menu settings

Selecting the menu language
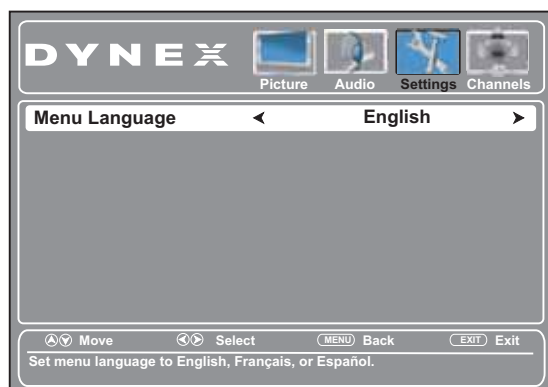
To select the on-screen menu language:
1   Press **MENU**. The on-screen menu opens with the *Picture* menu displayed.

2 Press ◄ or ► to highlight **Settings**, then press ▼. The *Settings* menu opens.

3 Press ▲ or ▼ to highlight **Menu Settings**, then press ► or **ENTER**. The *Settings-Menu Settings* menu opens with **Menu Language** highlighted.


4 Press ◄ or ► to select the menu language your want. You can select **English**, **French,** or **Spanish**.

5 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Labeling an input source

You can add a label to a video input source to make it easier to identify. These labels are displayed on the *INPUT SOURCE* list and on the banner that appears when you press **INFO**.
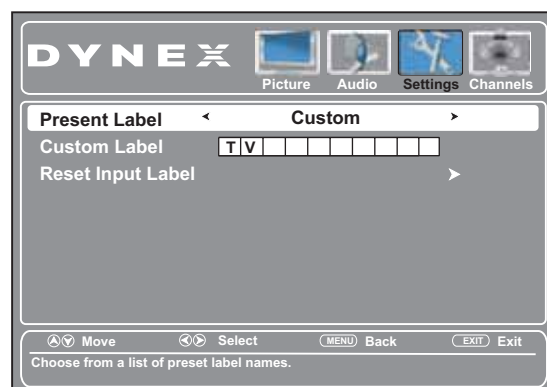
To label an input source:

1 Press **MENU**. The on-screen menu opens with the *Picture* menu displayed.
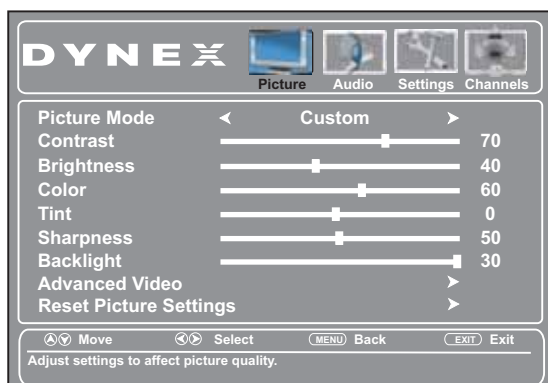
2 Press ◄ or ► to highlight **Settings**, then press ▼. The *Settings* menu opens.

3 Press ▲ or ▼ to highlight **Input Label**, then press **ENTER**. The *Settings-Input Label* screen opens with **Present Label** highlighted.


4 Press ◄ or ► to highlight a preset label from several options, or select **Custom** to enter your own label.

5 If you select **Custom**, press ▲ or ▼ to highlight **Custom Label**, then press ►.

6 Press ▲ or ▼ to select a character, then press ► to move to the next position. Repeat this step to enter additional characters. You can enter as many as 10 characters.

7 To reset the label to factory default, press ▲ or ▼ to highlight **Reset Input Label**, then press **ENTER** and follow the on-screen instructions.

8 When you complete the label, press **MENU**. The next time you press **INPUT**, the new label appears in the *INPUT SOURCE* list.

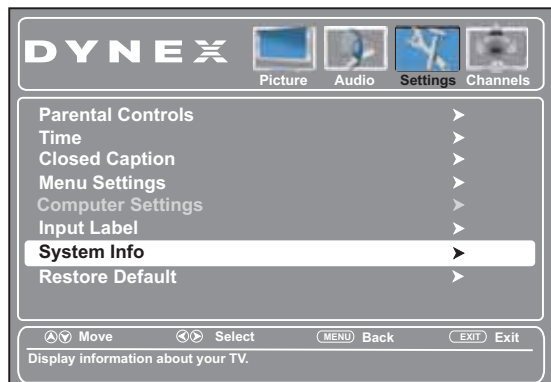**9** Press **EXIT** to close the menu.

Displaying system information

To display system information:
1 Press **MENU**. The on-screen menu opens with the *Picture* menu displayed.
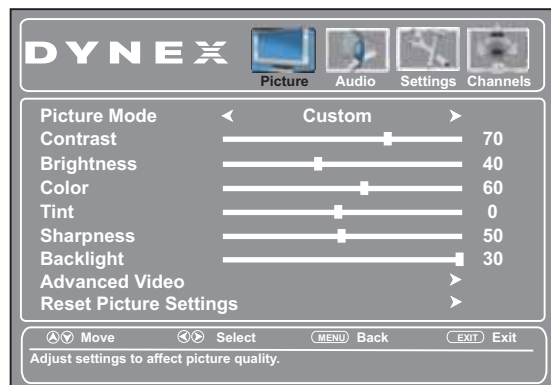
2 Press ◄ or ► to highlight **Settings**, then press ▼. The *Settings* menu opens.
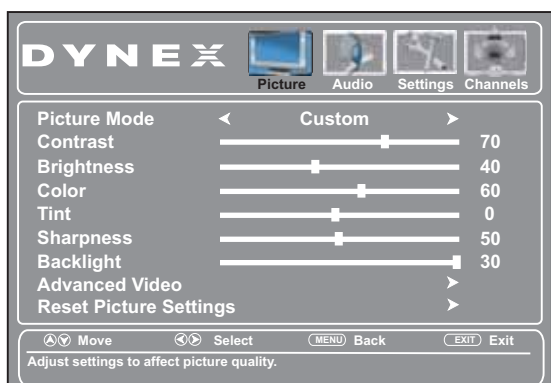
3 Press ▲ or ▼ to highlight **System Info**, then press **ENTER**. Information about the TV model name and firmware version are displayed.
4 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.
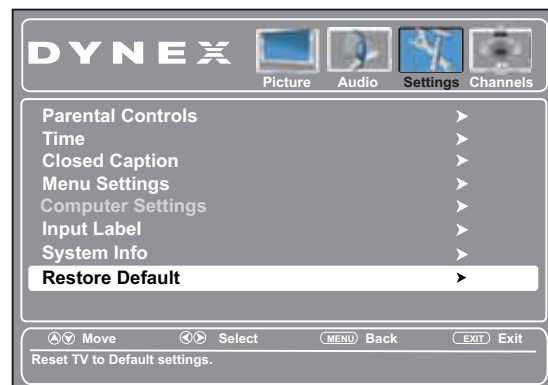
Restoring settings to default

Caution: When you restore default settings, all the settings (except the password and parental rating) you have customized are reset.

To restore settings to default:
1 Press **MENU**. The on-screen menu opens with the *Picture* menu displayed.

2 Press ◄ or ► to highlight **Settings**, then press ▼. The *Settings* menu opens.

3 Press ▲ or ▼ to highlight **Restore Default**, then press **ENTER**. The *Settings-Restore Default* menu opens.
4 Press ▲ or ▼ to highlight **Power on in Vivid Mode**, then press ◄ or ► to select **On** (TV will be in Vivid mode after power on), or **Off** (TV will come on in last picture mode before power off).
5 Press ▲ or ▼ to highlight **Restore Default**, then press ◄ or ► to select **Yes** (to reset all settings, except the password and parental rating, to factory default), or **No** (to not reset).
6 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Maintaining

Cleaning

Before cleaning the screen, unplug your TV from the power outlet.

Clean your TV with a soft, dry cloth. If surfaces are extremely dirty, use a soft cloth dampened with a weak detergent solution.

Use an eyeglass cleaner to clean the screen. Never use alcohol, paint thinner, or benzine.

Before using a chemically treated cloth, read the instructions that came with the cloth.

Do not spray insecticide liquid near your TV. Such chemicals may cause damage and discoloration to the exposed surfaces.

Servicing

Do not try to repair your TV yourself. There are no user-serviceable parts inside. Turn off your TV, unplug the power cord, then contact an authorized service center.

Troubleshooting

Warning*: Do not try to repair your TV yourself. Contact authorized
service personnel.*

Video and audio

Problem	Solution
Picture does not fill the screen. There are black bars around the picture.	• Change the aspect ratio. An increasing amount of digital TV and movies are presented in wide screen (16:9). See "Adjusting the TV picture" on page 17.
No picture (screen is not lit) and no sound.	• Press ⏻ on the TV or the remote control. • Make sure that the video cables are connected securely to the back of your TV. • Adjust the contrast and brightness. See "Adjusting the TV picture" on page 17. • Make sure that the power cord is plugged in. • Make sure that the correct video input source is selected. See "Selecting the video input source" on page 16. • Try another channel. The station may be experiencing problems. • Make sure that the incoming signal is compatible. • Make sure the antenna or cable TV is connected correctly and securely. See "Connecting a cable or satellite box" on page 8 or "Connecting an antenna or cable TV (no box)" on page 10. • Check the closed caption settings. Some TEXT modes can block the screen.
Dark, poor, or no picture (screen is lit), but sound is good.	• Try another channel. The station may be experiencing problems. • Make sure that the antenna or cable TV is connected correctly and securely. See "Connecting a cable or satellite box" on page 8 or "Connecting an antenna or cable TV (no box)" on page 10. • Make sure that the **Audio Only** option is set to **Off**. See "Playing TV audio only" on page 19. • Adjust the brightness. See "Adjusting the TV picture" on page 17. • Make sure that the correct picture mode is selected. See "Adjusting the TV picture" on page 17. • If you are using an antenna, the digital channel signal may be low. To check the digital channel signal strength, see "Checking the digital signal strength" on page 22. • If you are using an antenna and the signal strength is low, adjust the antenna or use a highly directional outdoor antenna or set-top antenna with a built-in amplifier. • Make sure that the video cables are connected securely to the back of your TV. • The video cable(s) you are using may be bad. Try a new set. • Try another channel. The station may be experiencing problems.
Picture quality is good on some channels and poor on others. Sound is good.	• The problem may be caused by a poor or weak signal from the broadcaster or cable TV provider. • If you connect to cable or satellite TV without a set-top box and experience poor picture quality, you may need to install a set-top box to improve signal reception and picture quality. Contact your cable or satellite TV provider about upgrading to a set-top box.

Problem	Solution
No color, dark picture, or color is not correct.	• Try another channel. The station may be experiencing problems. • Adjust the color saturation. See "Adjusting the TV picture" on page 17. • Make sure that the video cables are connected correctly and securely to the back of your TV. • Make sure that the antenna or cable TV is connected correctly and securely. See "Connecting a cable or satellite box" on page 8 or "Connecting an antenna or cable TV (no box)" on page 10. • If you are using an antenna, the digital channel signal may be low. To check the digital channel signal strength, see "Checking the digital signal strength" on page 22. • If you are using an antenna and the signal strength is low, adjust the antenna or use a highly directional outdoor antenna or set-top antenna with a built-in amplifier.
Only snow (noise) appears on the screen.	• Try another channel. The station may be experiencing problems. • Make sure that the antenna or cable TV is connected correctly and securely. See "Connecting a cable or satellite box" on page 8 or "Connecting an antenna or cable TV (no box)" on page 10. • If you are using an antenna, the digital channel signal may be low. To check the digital channel signal strength, see "Checking the digital signal strength" on page 22. • If you are using an antenna and the signal strength is low, adjust the antenna or use a highly directional outdoor antenna or set-top antenna with a built-in amplifier.
Dotted lines or stripes appear on the screen.	• Make sure that the antenna or cable TV is connected correctly and securely. See "Connecting a cable or satellite box" on page 8 or "Connecting an antenna or cable TV (no box)" on page 10. • If you are using an antenna, the digital channel signal may be low. To check the digital channel signal strength, see "Checking the digital signal strength" on page 22. • If you are using an antenna and the signal strength is low, adjust the antenna or use a highly directional outdoor antenna or set-top antenna with a built-in amplifier. • Make sure that the video cables are connected securely to the back of your TV. • The video cable(s) you are using may be bad. Try a new set. • Other devices (for example, surround sound receiver, external speakers, fans, or hair dryers) may be interfering with your TV. Try turning off one device at a time to determine which device is causing interference. After you have determined which device is causing interference, move it further from the TV to eliminate the interference.
Double images.	• Use a highly directional outdoor antenna, cable TV, or satellite TV.
The picture has a few bright or dark spots.	• A few bright or dark spots on an LCD screen is normal. It does not affect the operation of this TV.

Problem	Solution
Good picture, but no sound.	• Increase the volume. • Make sure that the sound is not muted. • Unplug the headphones. • Make sure that the correct audio mode is selected. • Make sure that the audio cables are connected correctly and securely to the back of your TV. • Make sure that the antenna or cable TV is connected correctly and securely. See "Connecting a cable or satellite box" on page 8 or "Connecting an antenna or cable TV (no box)" on page 10. • If you are using an antenna, the digital channel signal may be low. To check the digital channel signal strength, see "Checking the digital signal strength" on page 22. • The audio cable(s) you are using may be bad. Try a new set.
Poor picture	• Make sure that the room is not too bright. Light reflecting off the screen can make the picture difficult to see. • If an S-VHS camera or a camcorder is connected while another connected device is turned on, the picture may be poor. Turn off one or more devices.
Good sound but poor color	• Adjust the contrast, color, and brightness settings.
Audio noise	• Other devices (for example, surround sound receiver, external speakers, fans, or hair dryers) may be interfering with your TV. Try turning off one device at a time to determine which device is causing interference. After you have determined which device is causing interference, move it further from the TV to eliminate the interference.
No output from one of the speakers	• Adjust the audio balance. See "Adjusting sound settings" on page 19. • Make sure that the audio cables are connected correctly and securely to the back of your TV.
After images appear	• Do not display a still image, such as a logo, game, or computer image, for an extended period of time. This can cause a permanent after-image to be burned into the screen. This type of damage is not covered by your warranty.

Remote control

Problem	Solution
Remote control does not work.	• Make sure that the power cord is correctly connected to your TV and a power outlet. • Make sure that there are no obstructions between the remote control and the remote control sensor on the front of the TV. • Point the remote control directly at the remote control sensor on your TV. For the location of the remote control sensor, see "Front" on page 5. • Make sure that the batteries are installed correctly. See "Installing remote control batteries" on page 14. • Replace dead batteries with new batteries. See "Installing remote control batteries" on page 14.
Trouble programming your existing universal remote control.	• See instructions and a table of common codes in "Programming a different universal remote control" on page 37. • Codes are subject to change. For up to date codes, go to www.Dynexproducts.com. • Refer to the User Guide that accompanied your universal remote control and contact the manufacturer if problems persist.

General

Problem	Solution
No power	• Make sure that the power cord is correctly connected to your TV and a power outlet. • Unplug the power cord, wait 60 seconds, then plug the cord back in and turn on your TV. • Other devices (for example, surround sound receiver, external speakers, fans, or hair dryers) may be interfering with your TV. Try turning off one device at a time to determine which device is causing interference. After you have determined which device is causing interference, move it further from the TV to eliminate the interference.
"No signal" error message is displayed	• Press **INPUT** and make sure that you have selected the correct input for the device or service you are trying to use. • If you are using a cable or satellite box, use the remote that came with that box to change channels.
After Auto Channel Search, there are no channels	• Reception can vary by channel depending on the broadcast power level of a given station. Contact your cable or satellite TV provider. • Make sure the antenna or cable/satellite TV is connected securely to your TV. • Try replacing the cable between the antenna/cable or cable/satellite box and your TV.

Problem	Solution
One or more channels do not display.	• Make sure that the channels are not blocked. See "<u>Setting parental control levels</u>" on page 24. • Make sure that the channels are not hidden. The channel may have been deleted from the channel list. You can tune to the channel by pressing the number buttons or you can add the channel back to the channel list. See "<u>Hiding channels</u>" on page 20. • If you are using a cable or satellite box, use the remote that came with that box to change channels. • Make sure you have the correct input selected to view channels from the cable or satellite box. • If you are using an antenna, the digital channel signal may be low. To check the digital channel signal strength, see "<u>Checking the digital signal strength</u>" on page 22.
Password is lost.	• Enter **9999** to access parental controls, then set a new password. See "<u>Setting or changing the password</u>" on page 23.
Some settings cannot be accessed.	• If a setting is grayed, the setting is not available in the current video input mode.
TV cabinet creaks.	• When the TV is in use, the temperature rises naturally and may cause the cabinet to expand or contract which can cause a creaking noise. This is not a malfunction.
Control buttons do not work	• Make sure that the **Button Lock** option is set to **No**. See "<u>Locking control buttons</u>" on page 26. • Unplug the power cord, wait a few seconds, then plug the cord back in and turn on your TV.
TV keeps turning off	• Make sure that the sleep timer is not turned on. See "<u>Setting the sleep timer</u>" on page 30.

Note: If the problem is not solved by using these troubleshooting instructions, turn off your TV, then turn it on again.

Specifications

Specifications are subject to change without notice.

Warranty

DX-32L230A12
Parts: 1 year
Labor: 1 year

Dimensions and weight

DX-32L230A12
Without stand:
30.6 x 19.9 x 3.5 in.
(77.6 x 50.5 x 9.0 cm)
With stand:
30.6 x 21.5 x 10.0 in.
(77.6 x 54.6 x 25.5 cm)
Without stand:
20.9 lbs. (9.5 kg)
With stand:
25.4 lbs. (11.5 kg)

Screen

DX-32L230A12	
Screen size measured diagonally	31.5"
Display type	LCD
Panel 60 Hz vs.120 Hz	60Hz
Display resolution	1080p
Panel resolution	1920(H) × 1080 (V)
Aspect ratio	16:9
Contrast ratio (typical)–panel	2500:1
Dynamic contrast ratio–list value	5000:1
Brightness (center typical) cd/m2	400 nits
Comb filter	3d y/c digital
Response time	8 ms
Horizontal viewing angle	178
Vertical viewing angle	178

Display resolution scan rates

DX-32L230A12	
HDMI 1.3	Suggested Resolutions: 1080p, 1080i, 720p, 480p, 480i
Component video	Suggested Resolutions: 1080i, 720p, 480p, 480i
PC/VGA	640 x 480/60Hz 800 x 600/60Hz 1024 x 768/60Hz 1280 x 1024/60Hz 1920 x 1080/60Hz

Tuner

DX-32L230A12	
Analog	NTSC
Digital	ATSC, 8-VSB, Clear-QAM

Inputs

DX-32L230A12	
HDMI/DVI	1 (side), 1 (back) E-EDID compliant HDCP compliant
Component video	1 (back)
Composite video	1 (side)
Shared audio (component and composite)	No
S-Video	No
PC/VGA	1 (back)
3.5mm PC audio input	1 (back)
USB	Yes (for firmware upgrade only)

Outputs

DX-32L230A12	
Video	No
Analog audio	1 (side)
Digital audio	1 (back)
WiFi	No
Ethernet	No
Headphone	1 (side)

Audio

DX-32L230A12	
Simulated Surround Sound	No
Audyssey Dynamic Volume	No
Sound Leveler	Yes
Watts/Channel	3W x 2
Number of Speakers	2

Power

DX-32L230A12	
Power consumption	On: 98 W Standby: <1 W
Power input	120V/60Hz

Miscellaneous

DX-32L230A12	
OSD languages	English, French, Spanish
INlink	No
Game Mode	No
ENERGY STAR qualified	No
Internet connectable	No
TV base screws	M5 type (8 mm length) (4 pcs)
V-Chip (version 2.0)	Yes
Sleep timer	Yes
Channel labeling	Yes
VESA mount (mm) (horizontal × vertical)	200 × 200

Note: The length of the wall-mount screws vary depending on the wall-mount bracket you purchased. See the instructions that came with the wall-mount bracket for screw lengths.

Programming universal remote controls

Programming a different universal remote control

You can operate your Dynex TV with a new or existing universal remote control.

To program a different universal remote control:

1 See the table below for common codes. If you have problems programming your remote or need a different remote control code, visit www.dynexproducts.com/remotecodes for the latest remote control code information.

2 Follow your universal remote control's instructions to enter the TV code you found in Step 1.

> **Tips**
> - If your universal remote control has a code search feature, run a code search to identify a code that matches your TV. See your universal remote control's instructions for details.
> - If your universal remote control has a "Learn" feature, you can manually program it using the Dynex TV remote to "teach" the commands one at a time. See your universal remote control's instructions for details.

For additional help and information…

1. Visit http://www.dynexproducts.com/remotecodes
2. Call technical support for the universal remote control or cable/satellite company of the remote/set-top box you are trying to program.
3. Call the Dynex Customer Care Center 1-800-305-2204

Common universal remote control codes

> **Note**
> - The following codes may not provide full functionality. You may need to use the remote control that came with your TV.

The following is a list of the most common remote control codes. Codes for other remote controls are available online at: www.dynexproducts.com/remotecodes, or check with your cable or satellite TV provider for the remote control code.

Dynex TV codes for universal remote controls (for all Dynex TVs manufactured after Jan. 1, 2007)

Universal remote control makes and models	
One for All	0054
Phillips	0198, 0490
RCA	135
Sony	068, 069, 078, 096, 100, 164, 168, 229, 026

Set-top box makes and models	
Cablevision	068, 069, 078, 096, 100, 164, 168, 229, 026
Charter	2002, 1204, 1423, 1517, 0171, 1963, 0463, 1463, 0842, 1326, 167, 415, 424, 450, 456, 461, 507, 523, 567, 577, 586
Comcast	10171, 11204, 11326, 11463, 11517, 11641, 11780, 11785, 11892, 11963, 12002
Cox	1326, 1463
DirectTV	10171, 11204, 11326, 11517, 11564, 11641, 11963, 12002
Dish Network	720
Time Warner	400, 450, 461, 456, 11463, 1463, 0463
TiVo	0091
Verizon	0198, 0490

> **Tips**
> - The brand name is often visible on the front of the universal remote control, and the model number is often visible on the back.
> - If your universal remote control isn't listed on the chart, refer to your universal remote control's instructions and try codes for the brands Orion, Emerson, Memorex, Sansui, Sylvania, or Zenith. You may need to try several codes before finding a match.

Legal notices

FCC Part 15

This device complies with Part 15 of the FCC Rules. Operation of this product is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply within the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC warning

Changes or modifications not expressly approved by the party responsible for compliance with the FCC Rules could void the user's authority to operate this equipment.

Cables

Connections to this device must be made with shielded cables with metallic RF/EMI connector hoods to maintain compliance with FCC Rules and Regulations.

Canada ICES-003 statement

This Class B digital apparatus complies with Canadian ICES-003.
Standard Television Receiving Apparatus — Appareil de réception télévision ordinaire, Canada BETS-7 / NTMR-7

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HDMI

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One-year limited warranty - Dynex Televisions

Definitions:

Dynex Products ("Dynex") warrants to you, the original purchaser of this new Dynex-branded television ("Product"), that the Product shall be free of defects in the original manufacturer of the material or workmanship for a period of one (1) year from the date of your purchase of the Product ("Warranty Period"). For this warranty to apply, your Product must be purchased in the United States or Canada from a Best Buy or Future Shop authorized dealer of Dynex brand products only that are packaged with this warranty statement.

How long does the coverage last?

The Warranty Period lasts for 1 year (365 days) from the date you purchased the Product. Your purchase date is printed on the receipt you received with the Product.

What does this warranty cover?

During the Warranty Period, if the original manufacture of the material or workmanship of the Product is determined to be defective by an authorized Dynex repair center or store personnel, Dynex will (at its sole option): (1) repair the Product with new or rebuilt parts; or (2) replace the Product at no charge with new or rebuilt comparable products or parts. Products and parts replaced under this warranty become the property of Dynex and are not returned to you. If service of Products or parts are required after the Warranty Period expires, you must pay all labor and parts charges. This warranty lasts as long as you own your Dynex Product during the Warranty Period. Warranty coverage terminates if you sell or otherwise transfer the Product.

How to obtain warranty service?

If you purchased the Product at a Best Buy or Future Shop retail store location and your television Product has a screen size of less than 37 inches, please take your original receipt and the Product to any Best Buy or Future Shop store. Make sure that you place the Product in its original packaging or packaging that provides the same amount of protection as the original packaging. If you purchased the Product from a Best Buy or Future Shop online web site, mail your original receipt and the Product to the address listed on the web site. Make sure that you put the Product in its original packaging or packaging that provides the same amount of protection as the original packaging. To obtain in-home warranty service for a television with a screen 37 inches or larger, in the United States call 1-888-BESTBUY, Canada call 1-866-BESTBUY for Future Shop call 1-800-663-2275. Call agents will diagnose and correct the issue over the phone or will have a Dynex-approved repair technician dispatched to your home.

Where is the warranty valid?

This warranty is valid only to the original purchaser of the product in the United States and Canada at Best Buy or Future Shop branded retail stores or websites.

What does the warranty not cover?

This warranty does not cover:
- Customer instruction/education
- Installation
- Set up adjustments
- Cosmetic damage
- Damage due to acts of God, such as power surges
- Accident(s)
- Misuse
- Abuse
- Negligence
- Commercial purposes/use, including but not limited to use in a place of business or in communal areas of a multiple dwelling condominium or apartment complex, or otherwise used in a place of other than a private home.
- Modification of any part of the Product, including the antenna
- Plasma display panel damaged by static (non-moving) images applied for lengthy periods (burn-in).
- Damage due to incorrect operation or maintenance
- Connection to an incorrect voltage or power supply
- Attempted repair by any person not authorized by Dynex to service the Product
- Products sold "as is" or "with all faults"
- Consumables, including but not limited to batteries (i.e. AA, AAA, C etc.)
- Products where the factory applied serial number has been altered or removed

- Loss or Theft of this product or any part of the product
- Up to three (3) pixel failures (dots that are dark or incorrectly illuminated) grouped in an area smaller than one tenth (1/10) of the display size or up to five (5) pixel failures throughout the display. (Pixel based displays may contain a limited number of pixels that may not function normally.)
- Failures or Damage caused by any contact including but not limited to liquids, gels or pastes.

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Contact Dynex:
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